
Full-Scale Hingeless Rotor Performance and Loads

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Nomenclature

c	blade chord, ft
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, $\text{lift}/\rho S(\Omega R)^2$
CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$
C_T/σ , CTH/S	ratio of rotor thrust coefficient to solidity, rotor thrust/ $\rho S(\Omega R)^2$
CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, $-\text{drag}/\rho S(\Omega R)^2$
DRAGH,S	rotor drag force in the shaft or hub axis system, positive aft, lb
FMERIT	rotor figure of merit, $\frac{C_T^{3/2}}{C_P\sqrt{2}}$
LIFTH,S	rotor lift force in the shaft or hub axis system, positive up, lb
P	per rev
PITCHH,S	rotor pitch moment in the shaft or hub axis system, positive nose up, ft-lb
Q	corrected tunnel dynamic pressure, $0.5\rho V^2$, lb/ft ²

R	rotor radius, ft
ROLLH,S	rotor roll moment in the shaft or hub axis system, positive right-wing down, ft-lb
S	rotor reference area, $4cR$, ft ²
SIDEH,S	rotor side force in the shaft or hub axis system, positive right, lb
TORQ,C	rotor shaft torque in the shaft or hub axis system, positive clockwise, ft-lb
V	tunnel velocity, ft/sec
α	rotor shaft angle, positive shaft tilt aft, deg
μ , V/OR	advance ratio, $V/\Omega R$
ρ	air density, slug/ft ³
σ	rotor solidity, $S/\pi R^2$
ω_ζ	rotor-blade fundamental inplane bending frequency, rad/sec
Ω	rotor rotational speed, rad/sec

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Summary

A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads. A secondary objective was to investigate the ability to match flight test conditions in the wind tunnel. This data base can be used for the experimental and analytical studies of hingeless rotor systems over large variations in rotor thrust and tunnel velocity. Rotor performance and structural loads for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/σ) from 0.0 to 0.12 are presented in this report. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set.

Introduction

Wind tunnel test measurements, flight test measurements, and analytical prediction play key roles in the development of new rotor systems. Tests are typically performed using a range of rotor system sizes and wind tunnel test facilities. To assure the accuracy of wind tunnel testing methodology, a validation study is in progress using test results from model- and full-scale tests in comparison with flight test data. This comparison will allow for a determination of the ability to accurately predict helicopter flight behavior from wind tunnel experiments and the influence of the test facility on these results. Experimental data from a series of wind tunnel tests, including both model- and full-scale experiments, will be studied to determine the extent to which wind tunnel test results can be used to predict flight behavior.

The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads over a wide range of rotor thrusts and tunnel velocity. A secondary objective was to investigate the ability to match flight test measurements

in the wind tunnel based on the results of a BO-105 flight test program (ref. 1), conducted by the Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V. (DLR), Braunschweig, Germany, under the Rotor Data Correlation Task of the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. This report presents rotor performance and structural blade loads data for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/σ) from 0.0 to 0.12. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set. A limited amount of data was acquired for simulated steady level flight conditions ($C_T/\sigma = 0.071$ and 0.089) from 40 knots to 130 knots.

This report documents the test program and presents the rotor performance and structural blade loads for selected test conditions. The test conditions that are documented in this report are identified in Appendix A. Hover rotor performance data are presented in Appendix B. Forward flight (minimized flapping trim) rotor performance data are presented in Appendix C. Flight test correlation (prescribed hub moment trim) rotor performance data are presented in Appendix D. Rotor blade structural loads as measured in hover are presented in Appendix E. Forward flight (minimized flapping trim) rotor blade structural loads data are presented in Appendix F. The flight test correlation (prescribed hub moment trim) rotor blade structural loads data are presented in Appendix G.

Test Hardware

The BO-105 helicopter rotor system is a four-bladed, soft inplane ($\omega_\zeta < \Omega$) hingeless rotor with constant chord (0.886 ft), -8 deg linear twist, and a NACA 23012 cambered airfoil. The rotor radius is 16.11 ft; solidity (σ) is 0.07. The rotor hub has 2.5 deg of built-in coning and zero droop or sweep of the blade outboard of the pitch bearing. The general characteristics of the main rotor are summarized in table 1. Additional details about the rotor system are presented in reference 2.

The BO-105 hingeless rotor was installed on the rotor test apparatus (RTA) as shown in figure 1. The RTA is a special-purpose drive and support system for operating helicopter rotors in the 40- by 80- and 80- by 120-Foot

Wind Tunnels. It houses two electric drive motors, the hydraulic servo-actuators of the primary control system, and a dynamic control system capable of introducing dynamic perturbations to the nonrotating swashplate (collective and tilt) at frequencies up to 40 Hz. Installed on the RTA is a five-component balance to measure rotor loads at the hub moment center. This balance was designed and fabricated to measure both the steady and vibratory rotors' normal, axial, and side forces, together with rotor pitch and roll moments to rotor thrust levels of 22,000 lb. An instrumented flex-coupling measures rotor torque and residual normal force. The peak load capacities for the rotor balance are 22,000 lb of normal force, 4,400 lb of resultant shear force, and 57,800 ft-lb of resultant moment at the balance moment center. The maximum resultant hub moment is dependent upon the installed hub height above the balance moment center. The balance shares a common centerline with the rotor shaft. The rotor shaft has an in-line flex-coupling, which is instrumented to measure rotor torque up to a maximum of 36,000 ft-lb and the residual normal force up to a calibrated limit of 200 lb. The accuracy of the balance at the balance moment center, based on the calibration results for both the single and combined loading sequences, was determined to be better than 0.5 percent of the full-scale load capacity.

Instrumentation for the wind tunnel test included the five-component rotor balance and instrumented flex-coupling, thirty-seven blade bending and torsional moment measurements (distributed among the four blades), one rotating pitch-link measurement, one blade pitch angle measurement (at the pitch bearing), three stationary control system measurements, and standard wind tunnel operating condition measurements. The blade instrumentation is shown schematically in figure 2. Identical measurements, on all four blades, at radial stations $r/R = 0.10$ (flap and chord), $r/R = 0.144$ (flap and chord), and $r/R = 0.40$ (torsion) were made in the wind tunnel test program. Blade number one was composed primarily of the distributed flap bending measurements, while blade number three was composed primarily of the distributed chord bending and torsional moment measurements. Not all of the measurements shown in figure 2 are presented in this report. Tables 2 and 3 present the descriptions of the selected instrumentation, blade location (if appropriate), measurement units, and the positive sign conventions for the rotating system and fixed system measurements, respectively.

For a large portion of the test program, the collective and cyclic control values were resolved from the three fixed-system actuator displacements on the RTA. In the latter stages of the test program, a direct measurement of blade

pitch (at the pitch bearing, in the rotating system) on blade number one was installed and calibrated. The accuracy of the blade pitch transducer, from the collective calibration, is better than 0.1 deg. Relative to the blade pitch transducer, the accuracy of the resolved collective and cyclic pitch angles from the fixed-system actuator displacements is rather poor and on the order of 0.2 to 0.3 deg within the range of normal collective and cyclic pitch operation. The blade pitch settings presented in this report are referenced to the 0.7R radial station.

Test Procedures

The rotor was tracked and balanced initially in hover. Rotor tracking was verified to an airspeed of 140 knots for 1-g rotor thrust ($C_T/\sigma = 0.071$) at a rotor azimuth of approximately 90 deg. All four blades tracked to within one-half of the blade thickness throughout the tunnel velocity sweep. No attempts were made to track the rotor at other azimuth positions because of the limitations of suitable viewing ports within the test section walls. There were also no adjustments made to the rotor blade trim tabs. Because of limitations in the location and the amount of balancing weight that could be implemented on this rotor system, the rotor was balanced to a once-per-revolution (1P) shear force level of approximately 90–95 lb as indicated by the rotor balance. This imbalance is largely a result of differences in the amount of instrumentation that is distributed among the four blades.

Test conditions in the wind tunnel were obtained by establishing shaft angle, advance ratio μ (or tunnel velocity), and rotor thrust, and then adjusting cyclic inputs to achieve either a minimized flapping condition or a prescribed hub moment trim. The majority of the test program was conducted for the minimized flapping condition. A limited amount of data was acquired for the prescribed hub moment trim (simulated steady level flight). Minimized flapping trim was based on a flap bending measurement at $r/R = 0.144$ on reference blade number one. Minimized flapping was accomplished by adjusting the cyclic pitch inputs on the rotor control console until the 1P flapping was minimized on a display to the rotor operator. Prescribed hub moment trim was achieved when the fixed-system pitch and roll moments, as measured by the rotor balance, matched the 1P rotating shaft bending measurements from the BO-105 flight test program (ref. 1). The 1P *Cosine* value corresponds to the hub pitch moment and the 1P *Sine* value corresponds to the hub roll moment. The collective pitch setting was adjusted to have rotor thrust match the aircraft takeoff weight minus the fuel burn.

The procedures for setting on a simulated flight condition in the wind tunnel began by first adjusting the shaft angle-of-attack α , tunnel velocity, rotor thrust, and cyclic pitch settings to provide a minimized flapping baseline condition. The second step was setting rotor rotational speed and then further adjustment of tunnel velocity for the proper advance ratio μ . The final step was the adjustment of cyclic pitch controls until the real-time numerical display for hub pitch and roll moments, as measured by the RTA balance, corresponded with the values of the aircraft hub pitch and roll measurements. Additional information pertaining to the flight test correlation (prescribed hub moment trim), along with both experimental and analytical correlation results, can be found in reference 3.

Aerodynamic Tares

The blades-off aerodynamic tares for the rotor hub, shaft, and control system were obtained for tunnel velocities from 30 knots to 200 knots at a nominal rotor speed of 425 rpm. The tares are presented in the hub (shaft) axis system. The positive sign conventions used for the force and moment tares are shown in table 3. The tares were curve-fit to be functions of shaft angle-of-attack α and tunnel dynamic pressure Q as shown below.

$$\begin{aligned} \text{LIFTH, } S &= 90.264 + 2.8456 \alpha + 0.02172 \alpha^2 \\ &\quad + 0.008934 \alpha^3 + 0.32529 Q + 0.002194 Q^2 \\ \text{DRAGH, } S &= -36.708 - 1.5592 \alpha - 0.16014 \alpha^2 \\ &\quad - 0.004051 \alpha^3 + 4.20506 Q - 0.001162 Q^2 \\ \text{SIDEH, } S &= 10.001 + 1.2551 \alpha + 0.03071 \alpha^2 \\ &\quad - 0.000940 \alpha^3 - 1.11106 Q + 0.004923 Q^2 \\ \text{PITCHH, } S &= 186.015 + 6.7633 \alpha + 0.84404 \alpha^2 \\ &\quad + 0.027071 \alpha^3 - 3.48317 Q - 0.010599 Q^2 \\ \text{ROLLH, } S &= -45.556 - 7.0716 \alpha - 0.19702 \alpha^2 \\ &\quad + 0.004829 \alpha^3 + 4.770928 Q - 0.023838 Q^2 \\ \text{TORQ, } C &= 47.241 - 1.0486 \alpha + 0.02384 \alpha^2 \\ &\quad + 0.000990 \alpha^3 + 2.21413 Q - 0.000401 Q^2 \end{aligned}$$

A subset of the aerodynamic tare data and the corresponding curve-fit relations are shown in figures 3(a–f). The data and the corresponding curve-fits shown in figure 3 have been normalized by the tunnel dynamic pressure Q .

What appears to be rather poor curve-fits to the data in figures 3(a–e) at a tunnel dynamic pressure of 12 lb/ft² is in reality a good representation of the balance accuracies under combined loading. In general, the quality of the calculated curve-fits to the measured data increases with increasing tunnel dynamic pressure.

Hover Rotor Performance

Performance data for hover conditions are presented in tabular form in Appendix B and graphically in figure 4. Data are grouped in terms of thrust sweeps for shaft angles-of-attack α of 0 deg and –10 deg. The rotor control positions presented in Appendix B are based on the fixed-system actuator positions. Hover testing was conducted with the tunnel access doors open to minimize the influence of the facility on the data. However, as the run progressed, a slight buildup of tunnel air velocity occurred within the tunnel circuit, resulting in a dynamic pressure indication in the wind tunnel instrumentation and nonzero values of tunnel velocity in the data base.

Rotor power and figure of merit as a function of rotor thrust are shown in figure 4. Rotor power coefficient as a function of rotor thrust coefficient is shown in figure 4(a) for shaft angles-of-attack α of 0 deg and –10 deg. Rotor figure of merit as a function of rotor thrust coefficient is shown in figure 4(b) for the same test points shown in figure 4(a).

Forward Flight Rotor Performance

Performance data for forward flight conditions with minimized flapping trim are presented in tabular form in Appendix C and graphically in figures 5–21. Data are grouped in terms of shaft angles-of-attack α and increasing tunnel velocity. The rotor control positions presented in Appendix C are based on the fixed-system actuator positions. The test logs presented in Appendix A should be consulted for identification of test conditions tabulated in Appendix C. No wall corrections have been applied to these data.

Figures 5–21 present a limited portion of the performance data tabulated in Appendix B. Rotor propulsive force coefficient and rotor power coefficient as functions of rotor lift coefficient for fixed shaft angles-of-attack α at tunnel velocities from 10 to 170 knots are shown in figures 5–17. Rotor power coefficient as a function of advance ratio μ for fixed shaft angles-of-attack α and for constant rotor thrust coefficient is shown in figures 18–21.

Performance data for simulated flight conditions with prescribed hub moment trim for two different thrust

conditions are presented in tabular form in Appendix D and graphically in figures 22 and 23. Data are grouped in terms of constant rotor thrust as a function of increasing tunnel velocity. The rotor control positions presented in Appendix D are based on the blade pitch transducer in the rotating system. The run logs presented in Appendix A should be consulted for identification of the test conditions tabulated in Appendix D. No wall corrections have been applied to these data.

Figures 22 and 23 present a limited portion of the performance data tabulated in Appendix C. Rotor propulsive force coefficient and rotor power coefficient as functions of advance ratio μ are shown for three different trim procedures used to establish a test condition in the wind tunnel and two different rotor thrust conditions.

Rotor Blade Structural Loads

At each test condition, steady-state dynamic structural blade loads data were obtained. Due to the large amount of rotor instrumentation in this test program, a selected set of rotor blade measurements is presented for all hover and forward flight test conditions. The measurements presented and their positive sign conventions are given in table 2. Measurements with zero values in Appendices E, F, and G indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point.

The hover dynamic structural blade loads are tabulated in Appendix E. For each of the measurements tabulated, the time-averaged mean, root-mean-square value, and the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2) are presented.

The forward flight dynamic structural blade loads for minimized flapping trim are tabulated in Appendix F. The simulated flight condition dynamic structural blade loads are tabulated in Appendix G. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in terms of *Cosine* and *Sine* components are presented.

As discussed previously in the paper, the wind tunnel test was conducted with a rotor system having identical measurements on each blade near the root for flap and chord bending ($r/R = 0.104$ and $r/R = 0.144$). Each blade also had an identical torsional moment measurement at $r/R = 0.40$. Figure 24 presents a comparison of oscillatory (1–8 harmonics) flap bending at $r/R = 0.144$ for all four blades for a prescribed hub moment trim condition for 1-g

thrust ($C_T/\sigma = 0.071$) at an advance ratio of $\mu = 0.197$ and a shaft angle-of-attack $\alpha = -4.8$ deg. The reasons for these differences, which tend to increase slightly as a function of airspeed, have yet to be fully explained, other than blade-to-blade dissimilarities. As was discussed previously, the rotor was tracked and balanced initially in hover and then verified to an airspeed of 140 knots for 1-g rotor thrust ($C_T/\sigma = 0.071$). Refer to the Test Procedures section of this report for further information regarding the rotor track and balance. Figure 25 presents a comparison of oscillatory (1–8 harmonics) chord bending at $r/R = 0.144$ for all four blades for the same test conditions as figure 24. Figure 26 presents a comparison of oscillatory (1–8 harmonics) torsional moment at $r/R = 0.400$ for three of the four blades for a prescribed hub moment trim condition for the same test conditions shown in figures 24 and 25. The torsion gauge on blade two was nonoperational during the run in which these data were acquired.

Figures 27–29 present oscillatory time histories (1–8 harmonics) for flap and chord bending and torsional moment at several blade radial stations for the three different trim procedures used to establish a test condition in the wind tunnel. The results presented are for 1-g thrust ($C_T/\sigma = 0.071$) at an advance ratio of $\mu = 0.197$ and a shaft angle-of-attack $\alpha = -4.8$ deg. Figure 27 is a comparison of oscillatory flap bending moment time histories at two blade radial locations ($r/R = 0.144$ and $r/R = 0.57$). As shown in figure 27(a), distinct differences are noted at the inboard radial station ($r/R = 0.144$) between the prescribed hub moment trim procedure and the trim procedures for minimized flapping or prescribed cyclics. These differences are almost entirely a function of the 1P control input for trim. Harmonic analysis indicates that the higher frequency loading (2P–8P) is basically unchanged as a function of the trim procedure and that differences are similar to those shown in figure 27(b). Small differences in the measured flap bending moment are noted at the midspan ($r/R = 0.57$) radial station as shown in figure 27(b).

Figure 28 is a comparison of oscillatory chord bending moment time histories at two blade radial locations ($r/R = 0.144$ and $r/R = 0.57$) at the same test condition as figure 27, and for the same three wind tunnel trim procedures used in the wind tunnel. Again, distinct differences are noted at the inboard radial station ($r/R = 0.144$) between the prescribed hub moment trim procedure and the trim procedures for minimized flapping or prescribed cyclics. As in figure 27(a), these differences are almost entirely a function of the 1P control input for trim, with very little change in the higher frequency loading. The significant observation in figure 28(a) is the decrease in the oscillatory chordwise bending moment by

approximately a factor of 2 with the prescribed hub moment trim approach relative to the minimized flapping trim approach. Unlike the flap bending moment comparison in the previous figure (fig. 27(b)), small but distinct differences in the measured chord bending moment are noted at the midspan ($r/R = 0.57$) radial station as shown in figure 28(b).

Figure 29 is a comparison of oscillatory torsional moment time histories at one blade radial location ($r/R = 0.40$) at the same test condition as figures 27 and 28, and for the same three wind tunnel trim procedures used in the wind tunnel. The torsional loading is essentially unchanged as a function of the trim procedure. However, small differences are noted, and these differences appear to be slight phase shifts and small changes in magnitude.

Concluding Remarks

A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were

investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics.

References

1. Langer, H. J.; and Tränapp, N.: BO105 Flight Test Data for a Wind Tunnel Test Program. Deutsche Forschungsanstalt für Luft- und Raumfahrt e.V., DLR-IB111-93/58, Institut für Flugmechanik, Braunschweig, Germany, Sept. 1993.
2. Staley, J. A.: Validation of Rotorcraft Flight Simulation Program through Correlation with Flight Data for Soft In-Plane Hingeless Rotors. USAAMRDL TR-75-50, Jan. 1976.
3. Peterson, R. L.; Maier, T.; Langer, H. J.; and Tränapp, N.: Correlation of Wind Tunnel and Flight Test Results of a Full-Scale Hingeless Rotor. Proceedings of the American Helicopter Society Aeromechanics Specialist Conference, San Francisco, Calif., Jan. 1994.

Table 1. General characteristics of the BO-105 main rotor

Type	Hingeless
Radius (ft)	16.11
Number of blades	4
Blade chord (ft)	0.886
Linear blade twist (deg)	-8
Precone (deg)	2.5
Solidity, σ	0.07
Reference area, S (ft ²)	57.1
Nominal rotor speed (rpm)	425
Nominal tip speed (ft/sec)	717
Airfoil section	NACA 23012

Table 2. Rotating system measurements

Measurement	Blade number	Location (r/r)	Units	Sign convention
Flap bending	1,2,3,4	0.144	in.-lb	Tip up
Flap bending	1	0.167	in.-lb	Tip up
Flap bending	1	0.215	in.-lb	Tip up
Flap bending	1	0.280	in.-lb	Tip up
Flap bending	1	0.325	in.-lb	Tip up
Flap bending	1	0.570	in.-lb	Tip up
Flap bending	1	0.725	in.-lb	Tip up
Flap bending	1	0.800	in.-lb	Tip up
Flap bending	1	0.900	in.-lb	Tip up
Chord bending	1,2,3,4	0.144	in.-lb	Leading edge tension
Chord bending	3	0.174	in.-lb	Leading edge tension
Chord bending	3	0.325	in.-lb	Leading edge tension
Chord bending	3	0.450	in.-lb	Leading edge tension
Chord bending	1	0.570	in.-lb	Leading edge tension
Torsional moment	1,3,4	0.400	in.-lb	Pitch up
Blade pitch	1	Pitch bearing	deg	Pitch up
Pitch link	1		lb	Tension
Rotor shaft torque			in.-lb	Clockwise

Table 3. Fixed system measurements

Measurement	Location	Units	Sign convention
Lift	Rotor balance	lb	Up
Drag	Rotor balance	lb	Aft
Side	Rotor balance	lb	Right
Pitch	Rotor balance	ft-lb	Nose up
Roll	Rotor balance	ft-lb	Right-wing down
Yaw	Rotor balance	ft-lb	Right-wing forward

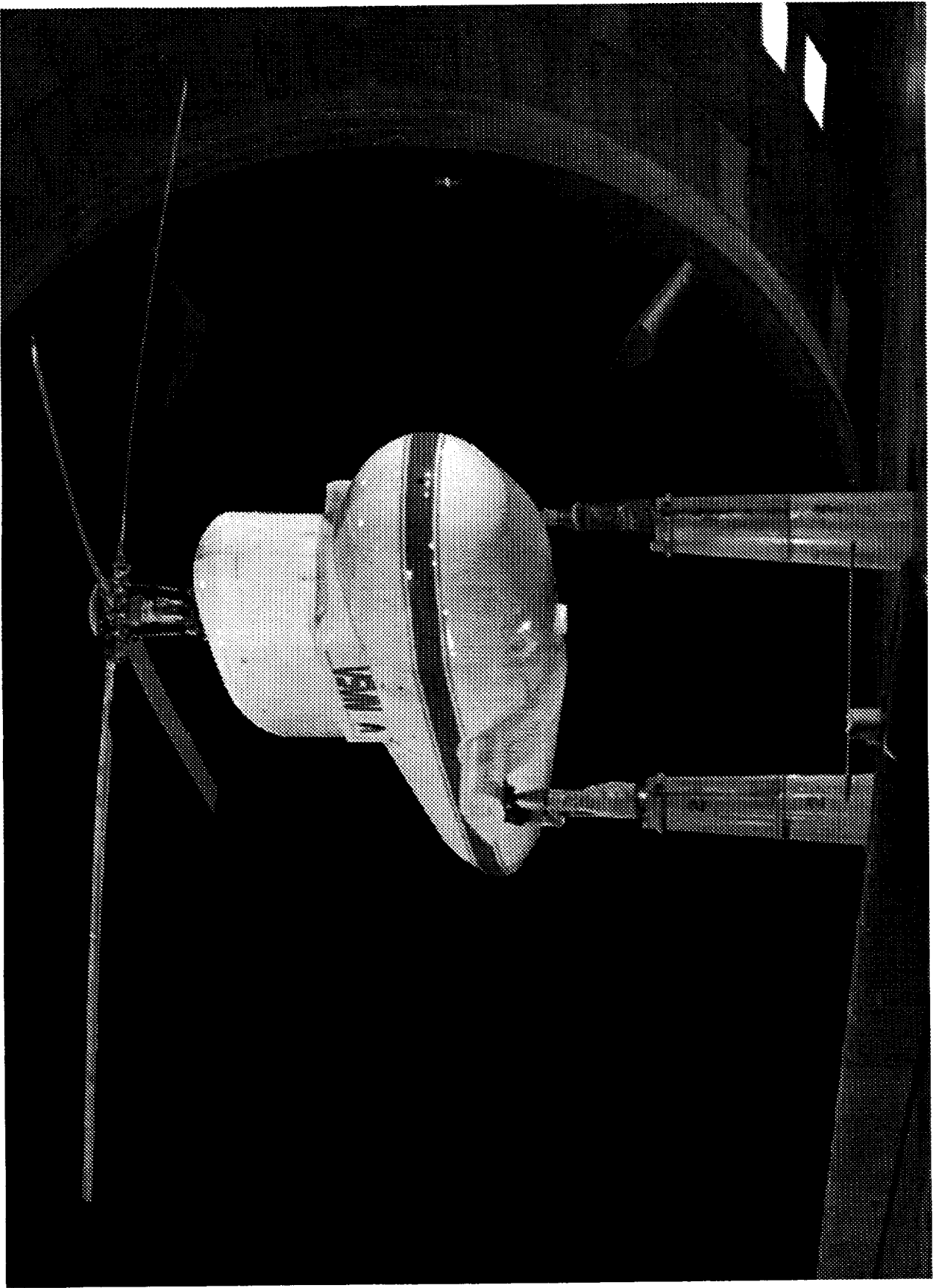


Figure 1. BO-105 rotor system on the Ames rotor test apparatus (RTA) in the 40- by 80-Foot Wind Tunnel Test Section.

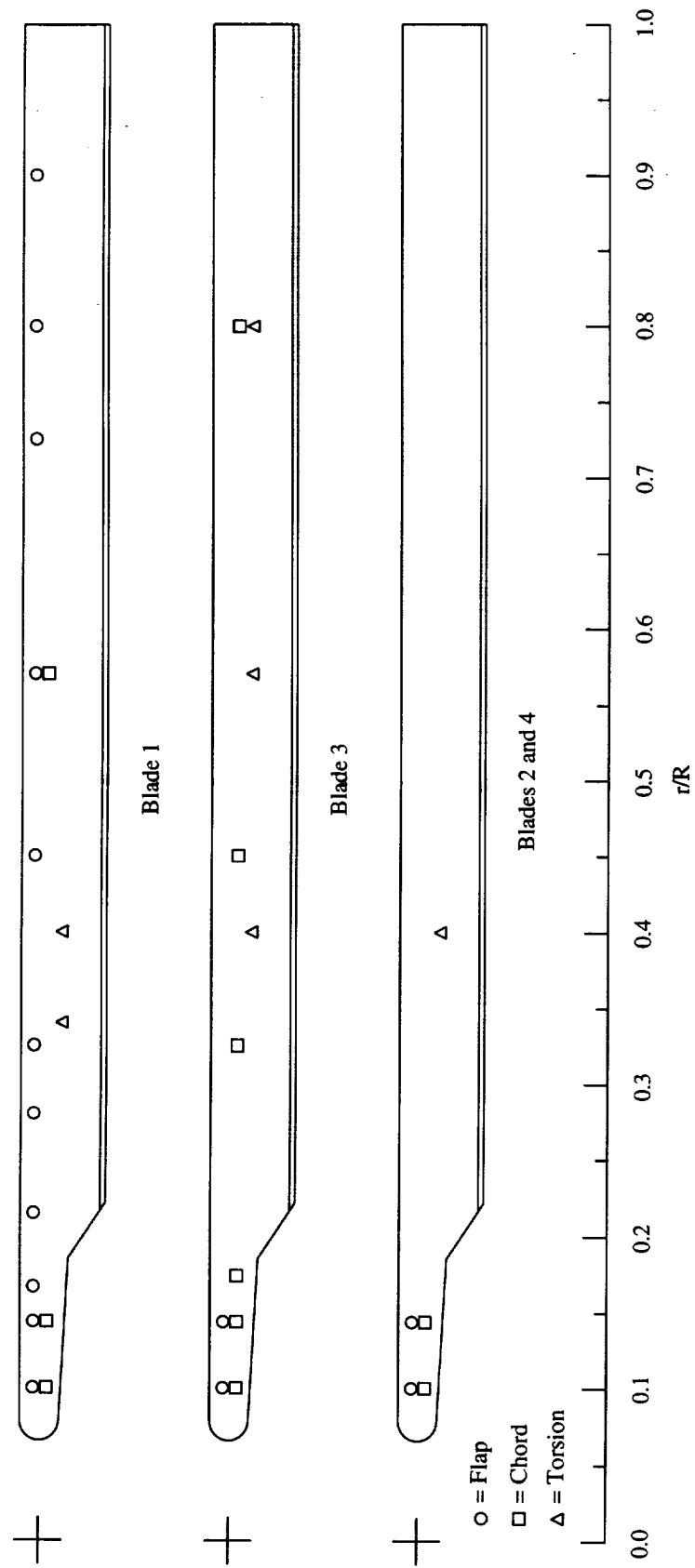


Figure 2. Radial locations of flap, chord, and torsion instrumentation for the wind tunnel test program.

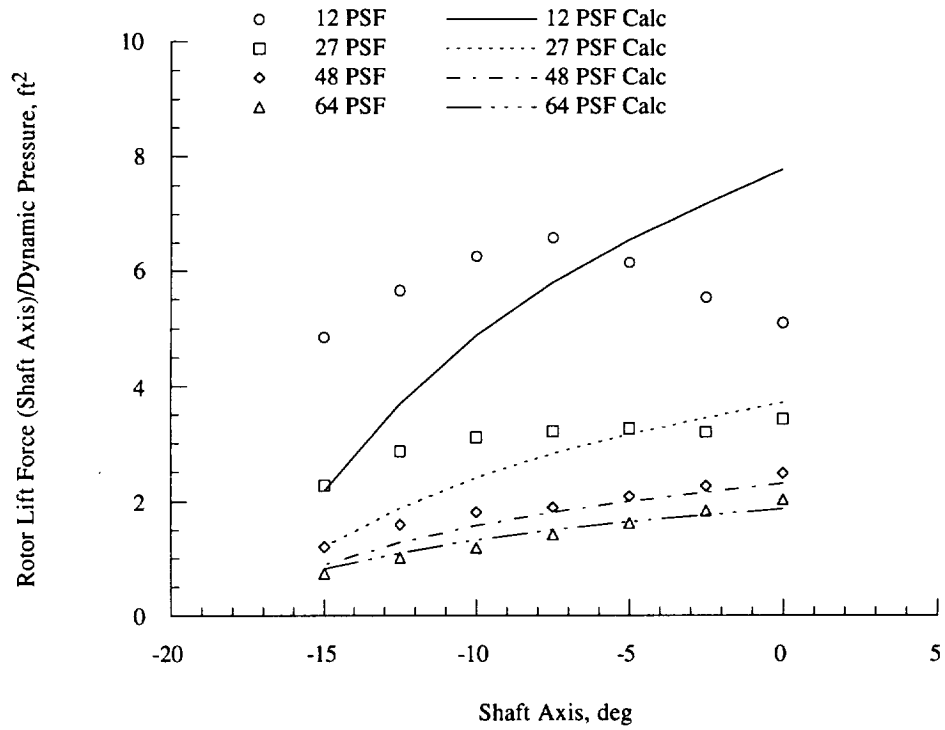


Figure 3(a). Rotor hub/shaft aerodynamic tares, rotor lift force (shaft axis) as a function of shaft angle.

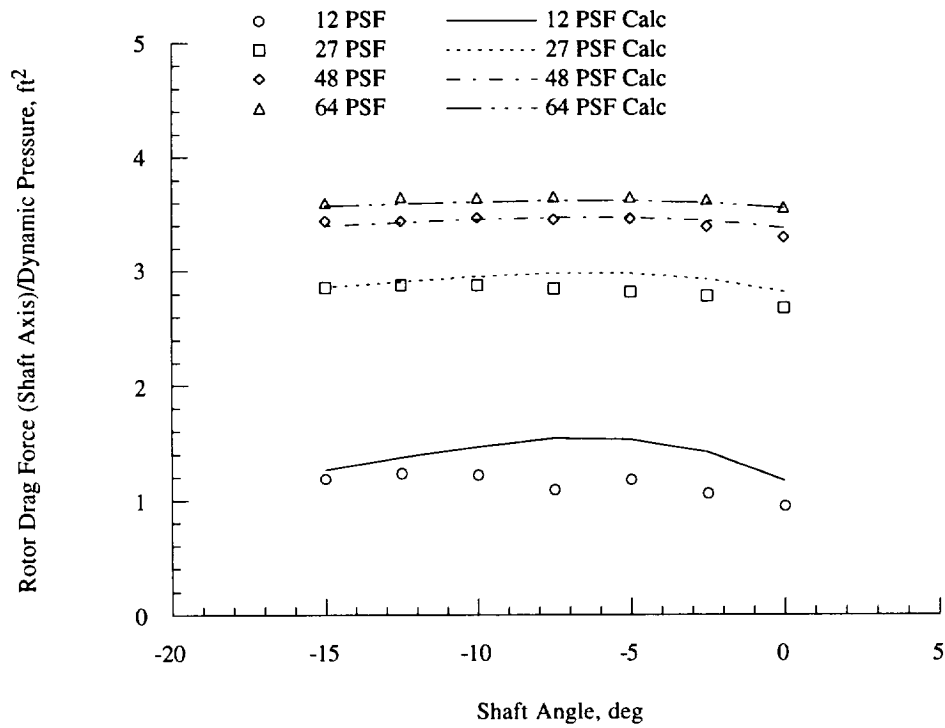


Figure 3(b). Rotor hub/shaft aerodynamic tares, rotor drag force (shaft axis) as a function of shaft angle.

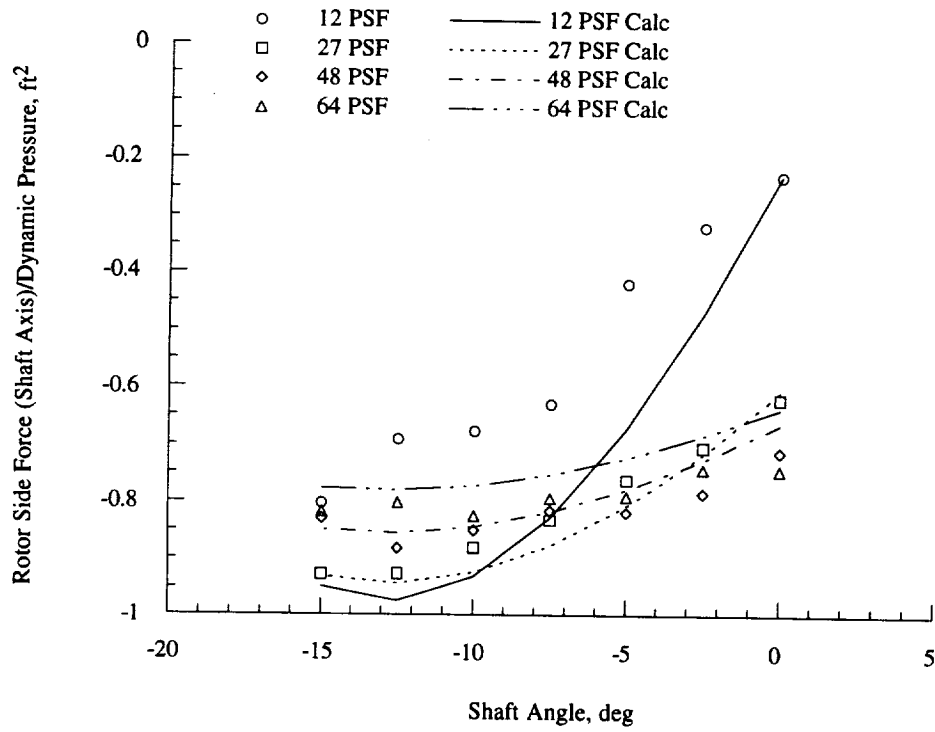


Figure 3(c). Rotor hub/shaft aerodynamic tares, rotor side force (shaft axis) as a function of shaft angle.

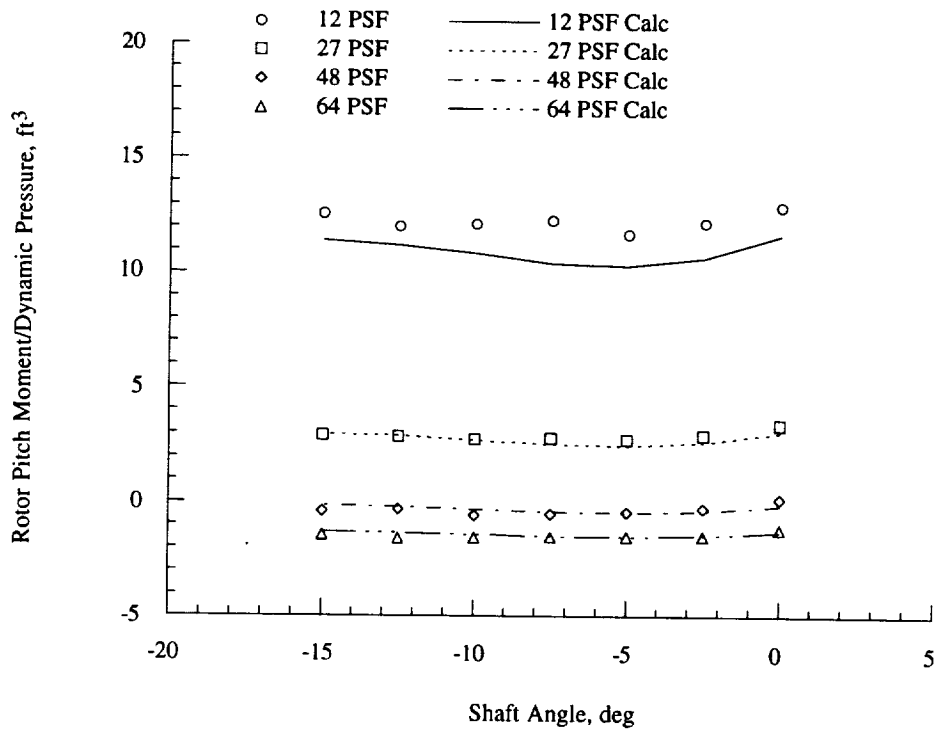


Figure 3(d). Rotor hub/shaft aerodynamic tares, rotor pitch moment as a function of shaft angle.

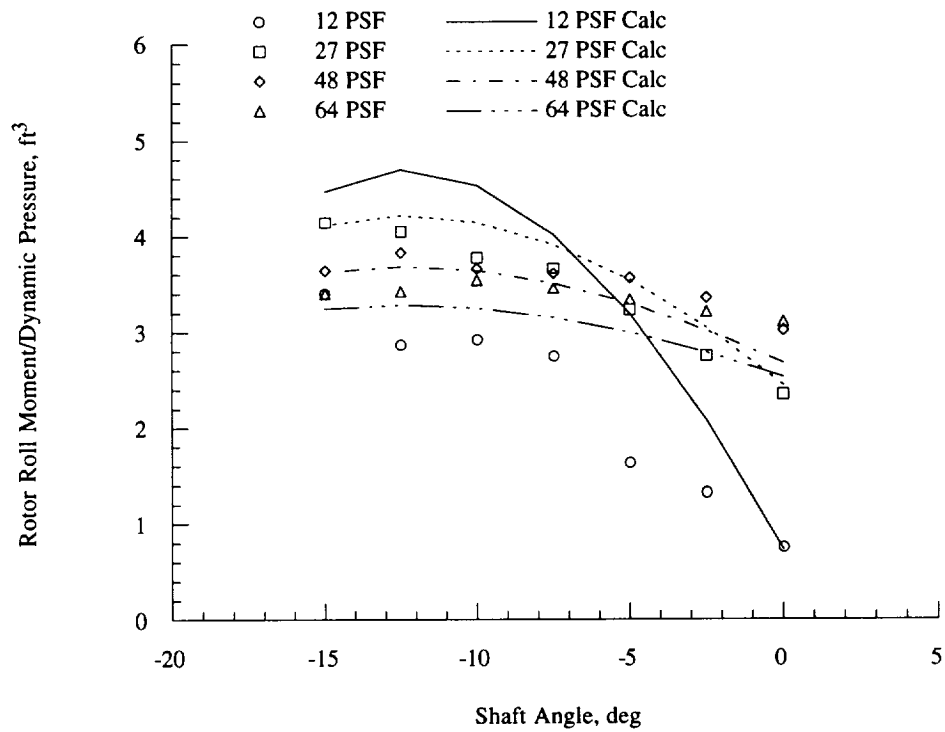


Figure 3(e). Rotor hub/shaft aerodynamic tares, rotor roll moment as a function of shaft angle.

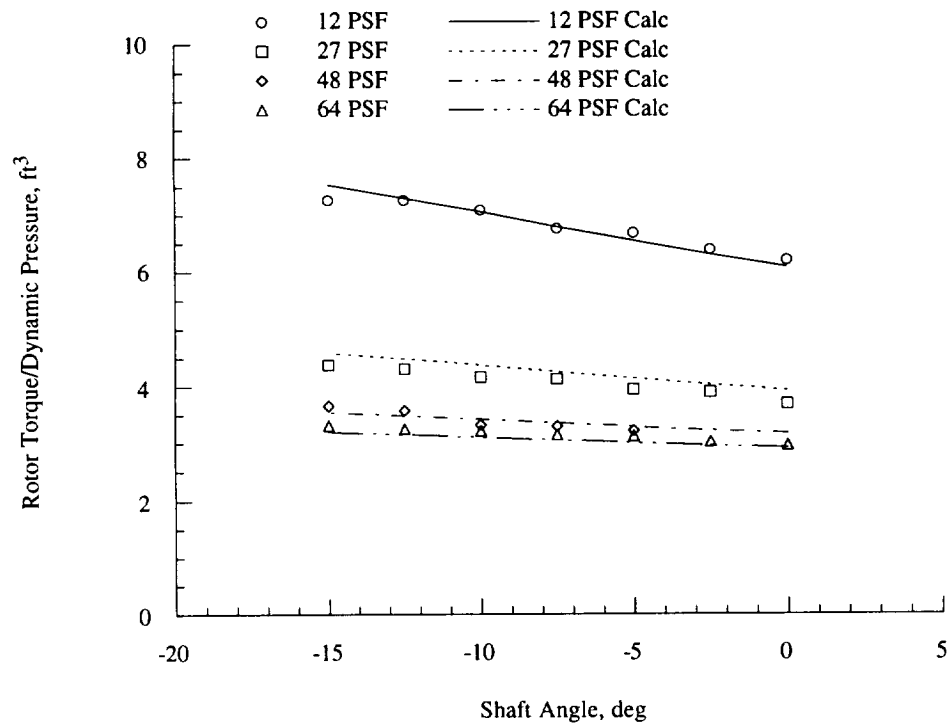


Figure 3(f). Rotor hub/shaft aerodynamic tares, rotor torque as a function of shaft angle.

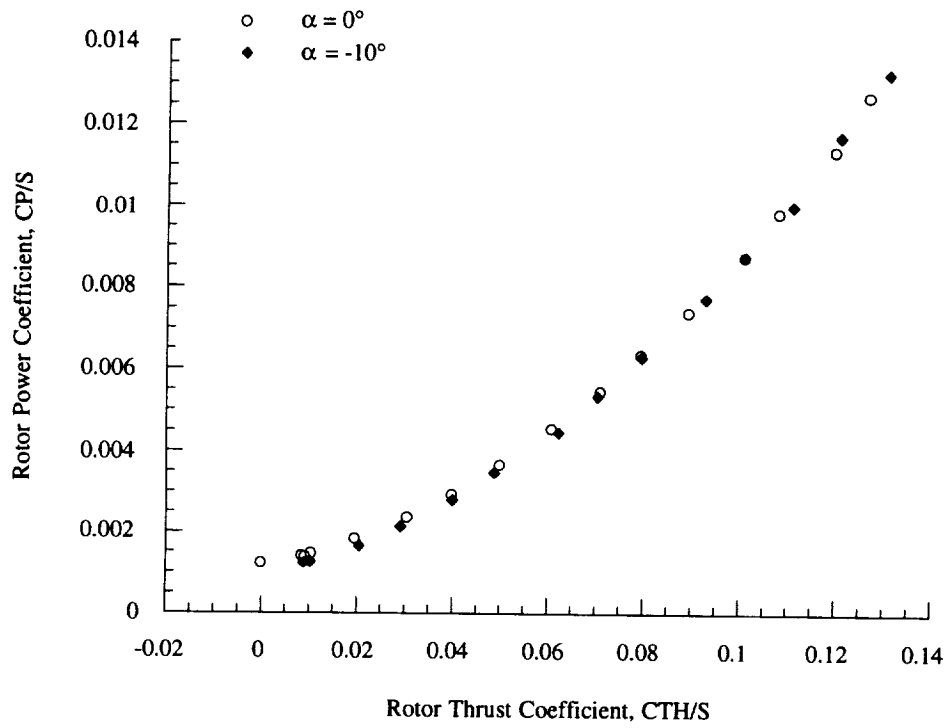


Figure 4(a). Rotor power coefficient as a function of rotor thrust coefficient, hover.

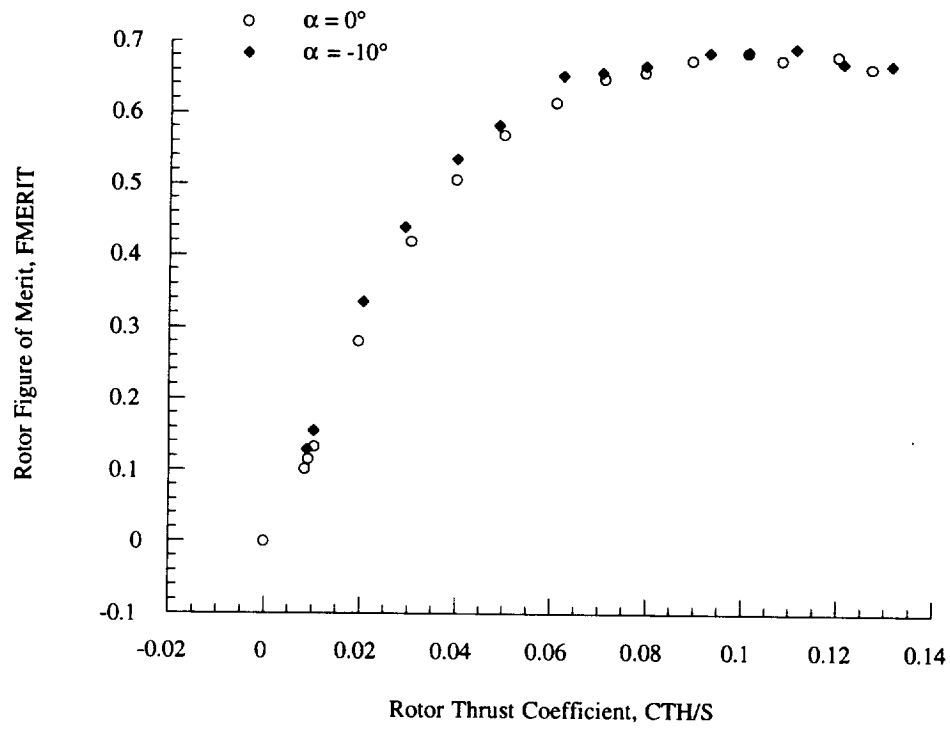


Figure 4(b). Rotor figure of merit as a function of rotor thrust coefficient, hover.

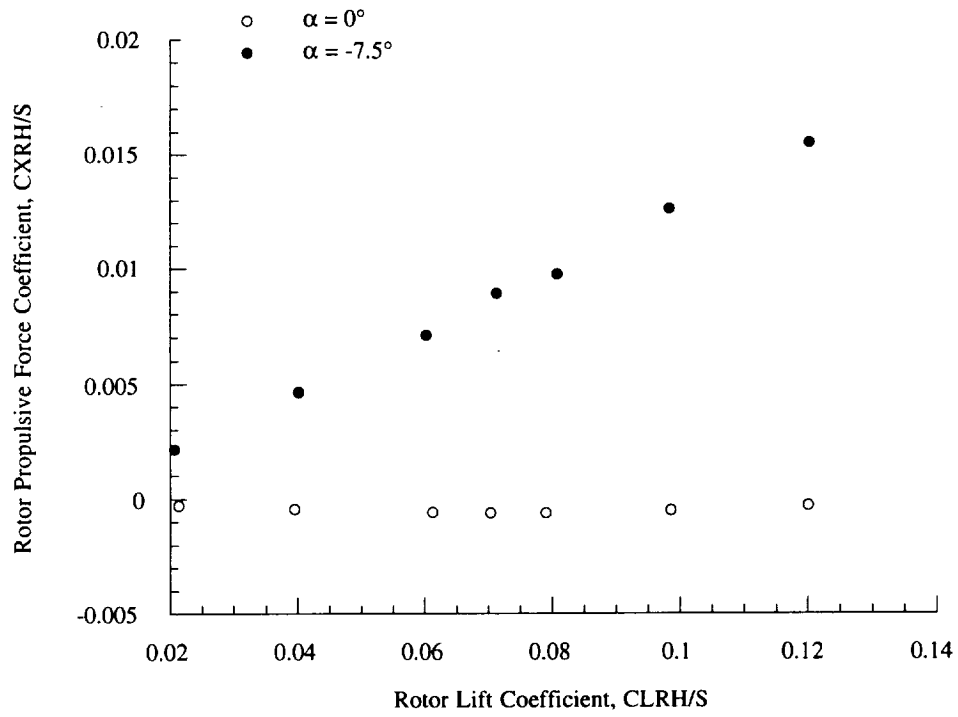


Figure 5(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 10 knots.

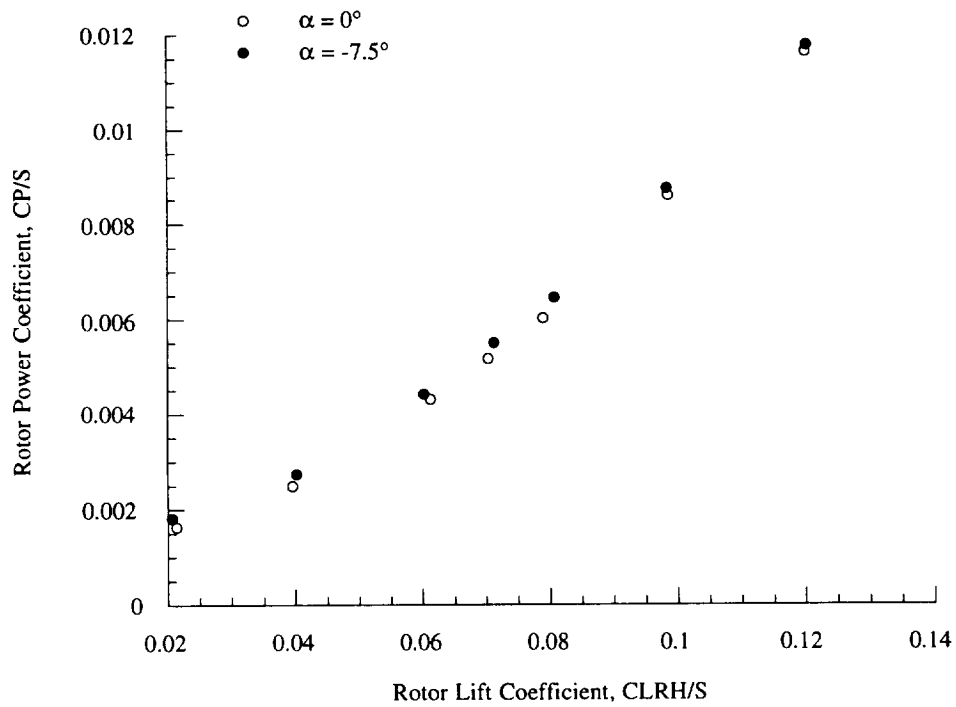


Figure 5(b). Rotor power coefficient as a function of rotor lift coefficient, 10 knots.

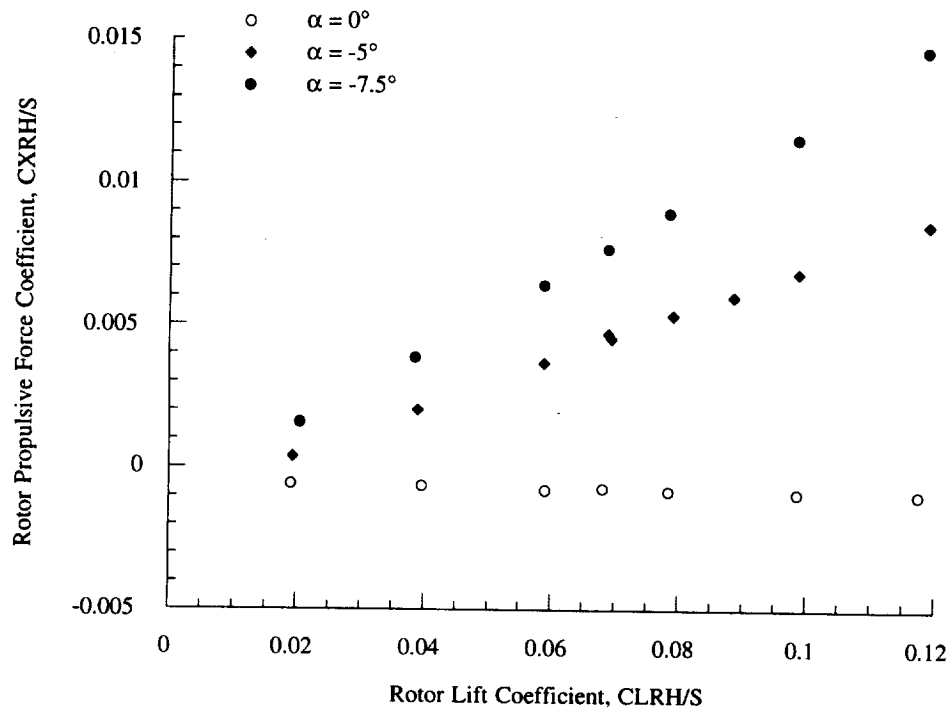


Figure 6(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 20 knots.

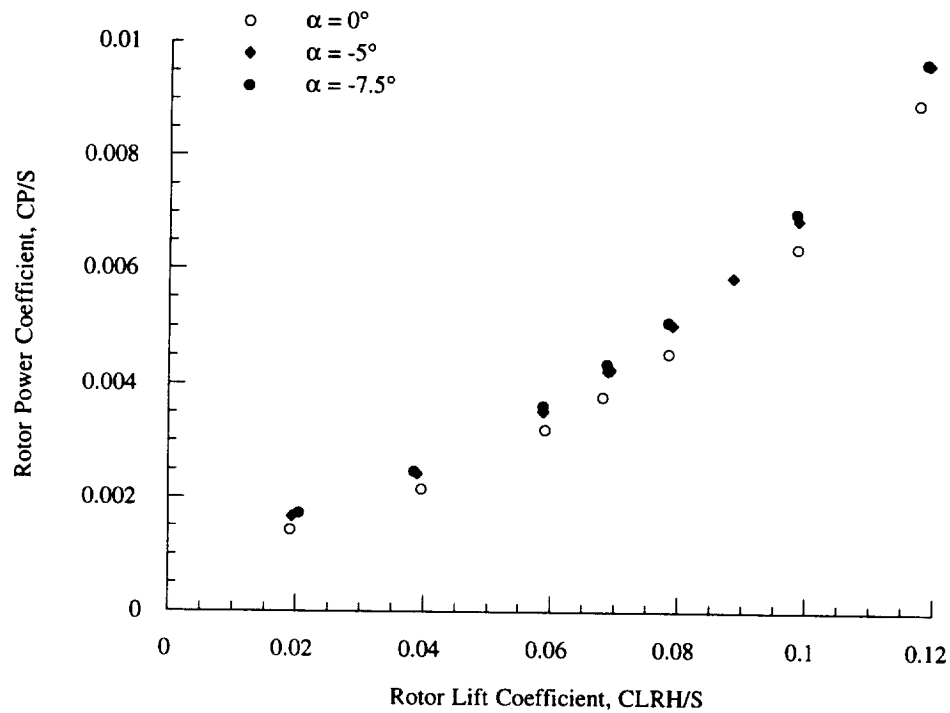


Figure 6(b). Rotor power coefficient as a function of rotor lift coefficient, 20 knots.

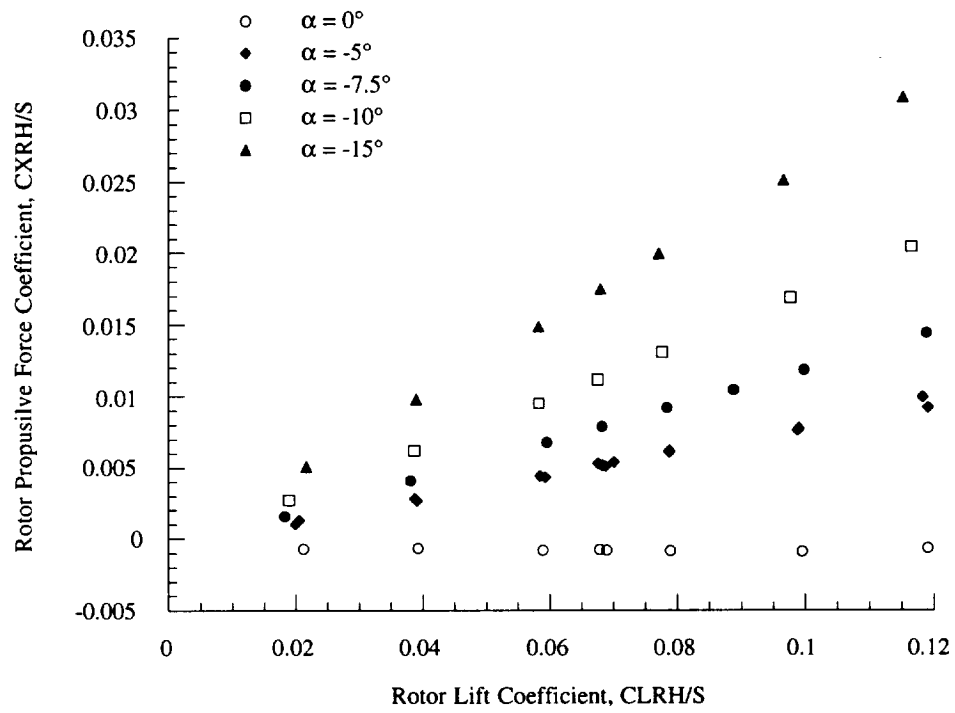


Figure 7(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 30 knots.

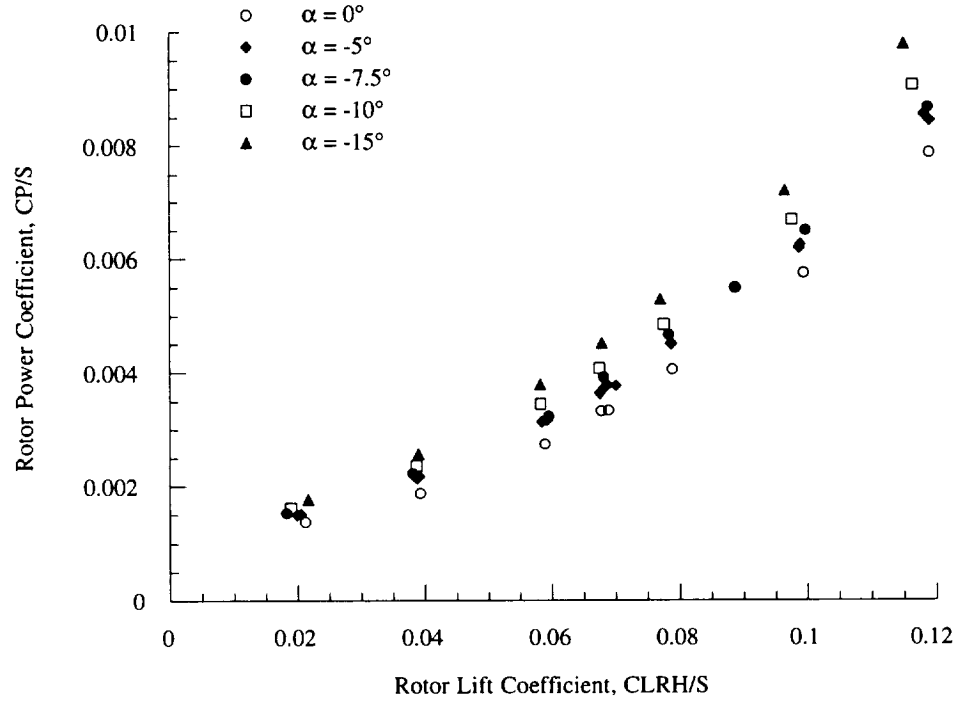


Figure 7(b). Rotor power coefficient as a function of rotor lift coefficient, 30 knots.

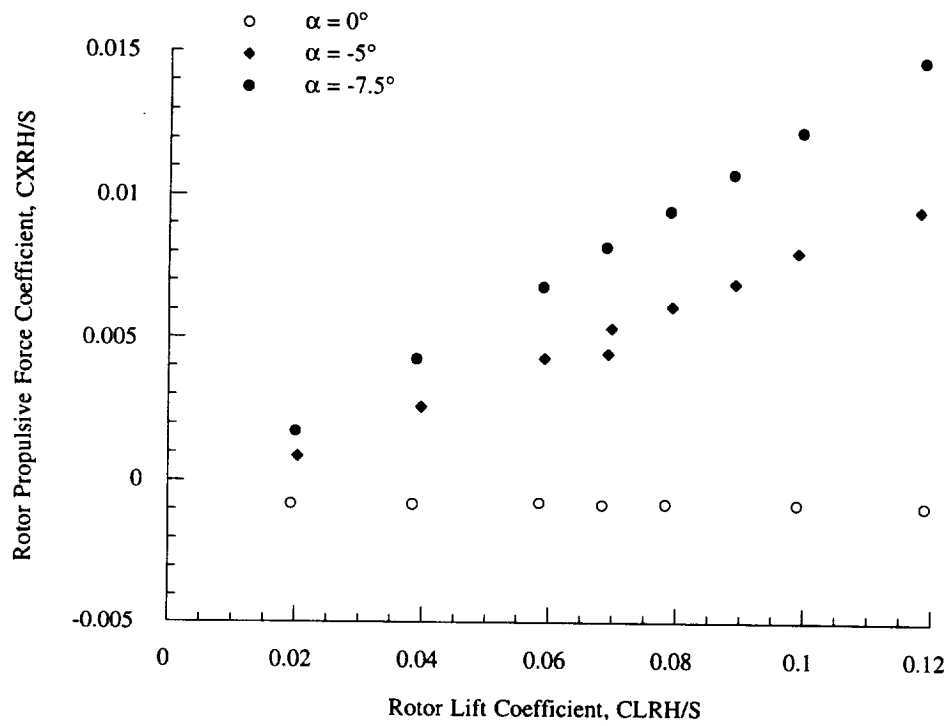


Figure 8(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 45 knots.

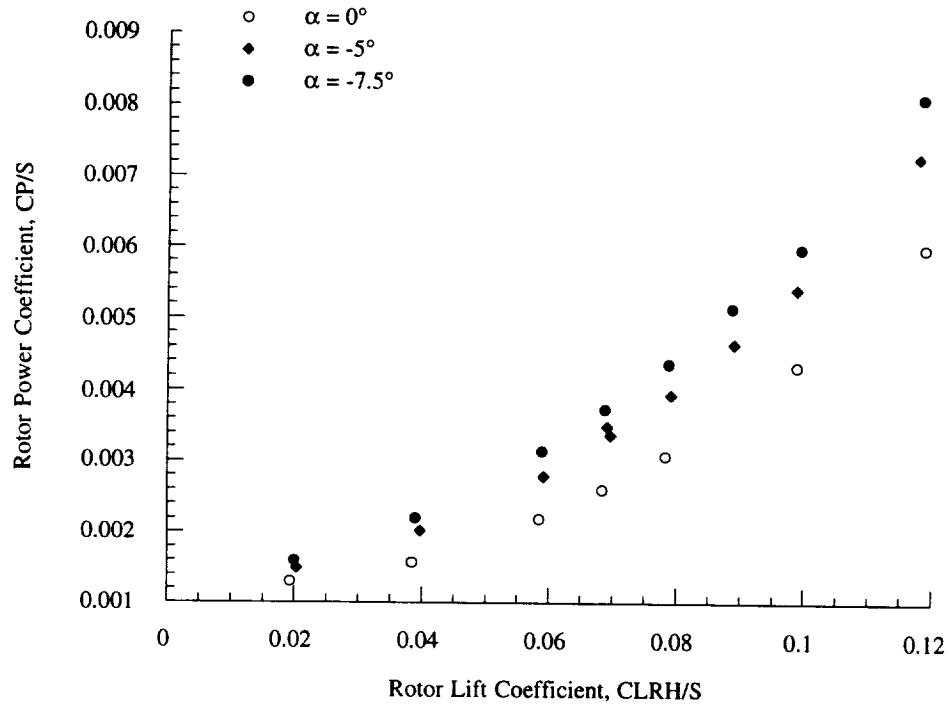


Figure 8(b). Rotor power coefficient as a function of rotor lift coefficient, 45 knots.

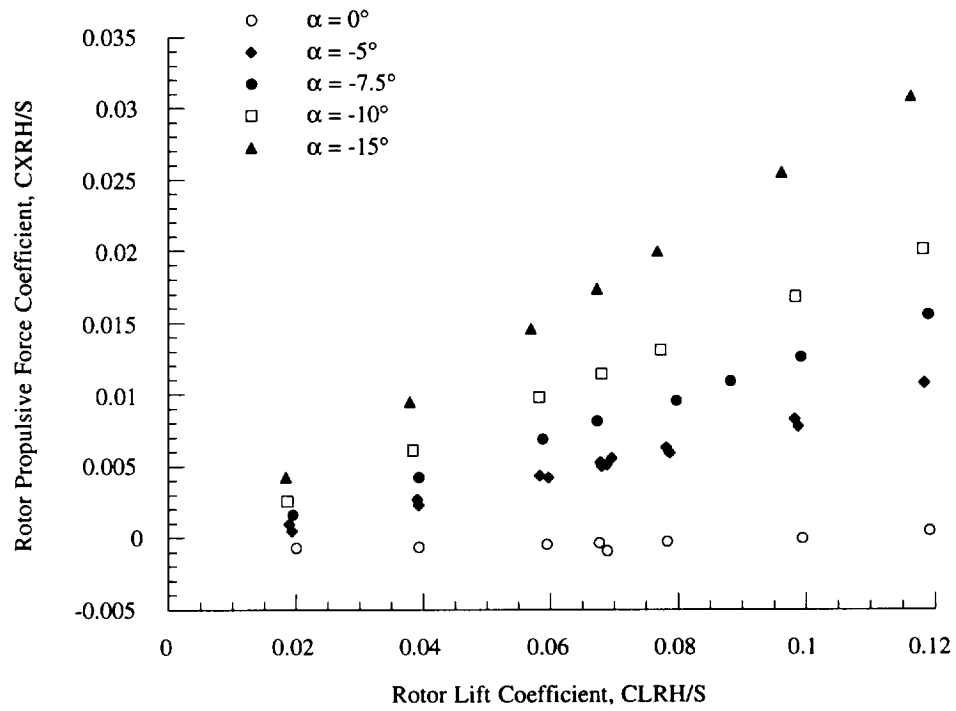


Figure 9(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 60 knots.

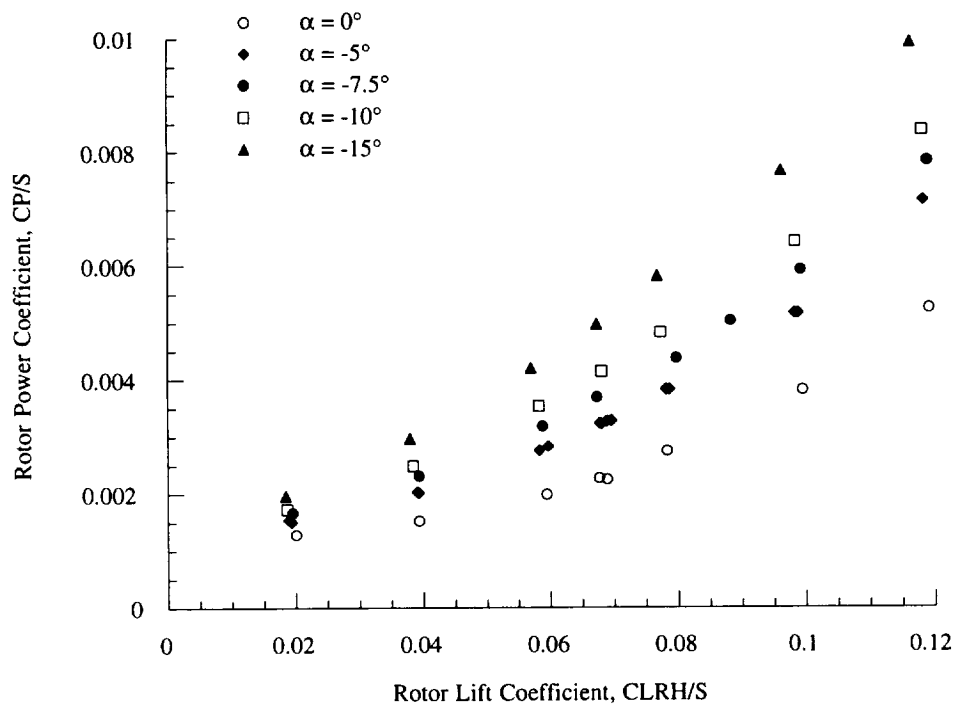


Figure 9(b). Rotor power coefficient as a function of rotor lift coefficient, 60 knots.

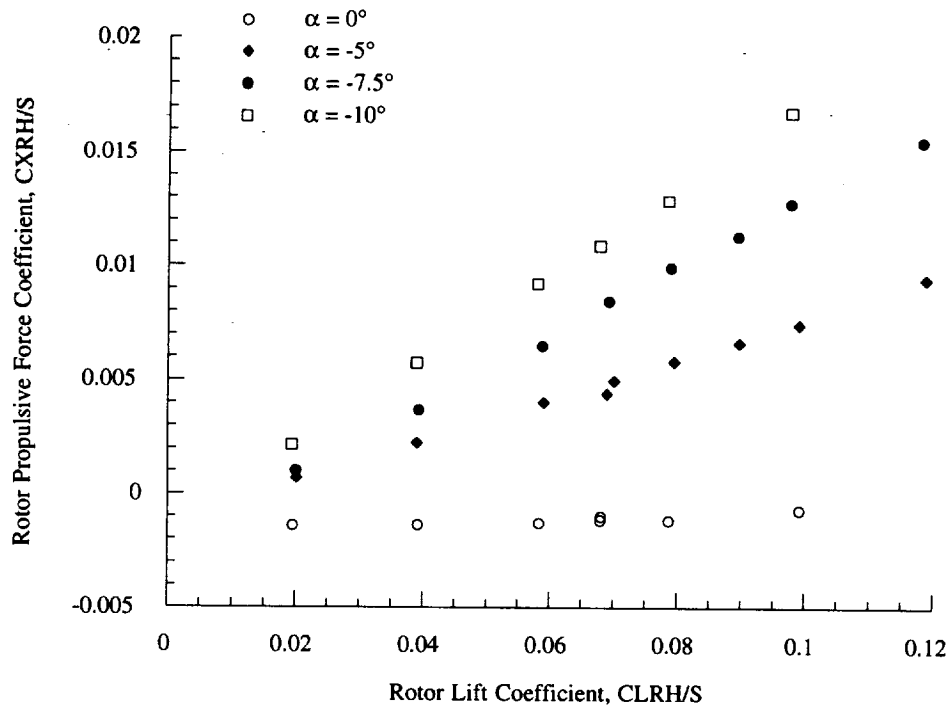


Figure 10(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 75 knots.

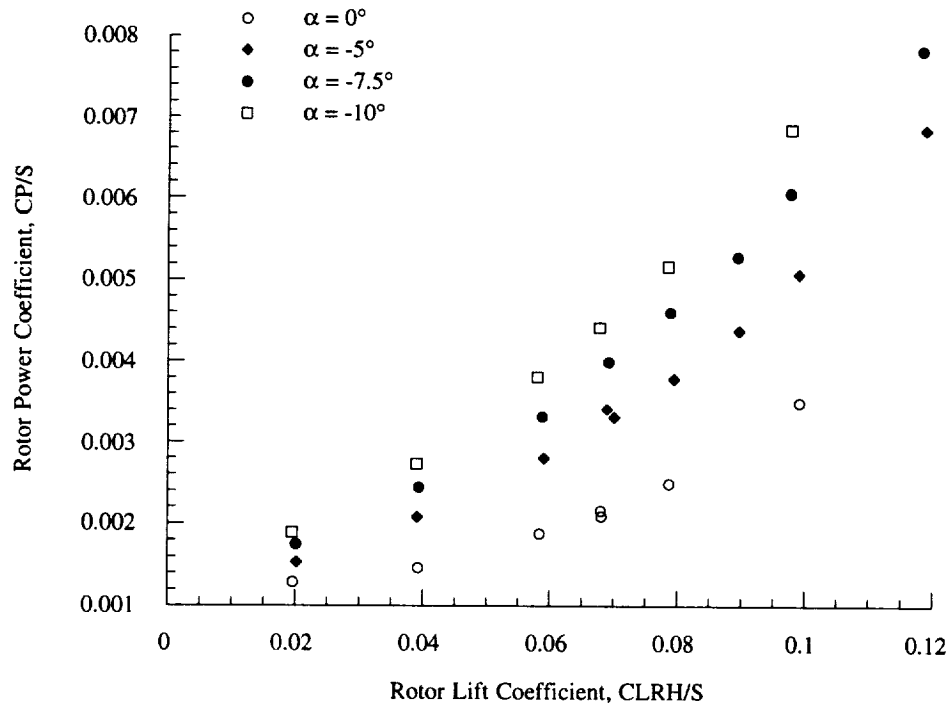


Figure 10(b). Rotor power coefficient as a function of rotor lift coefficient, 75 knots.

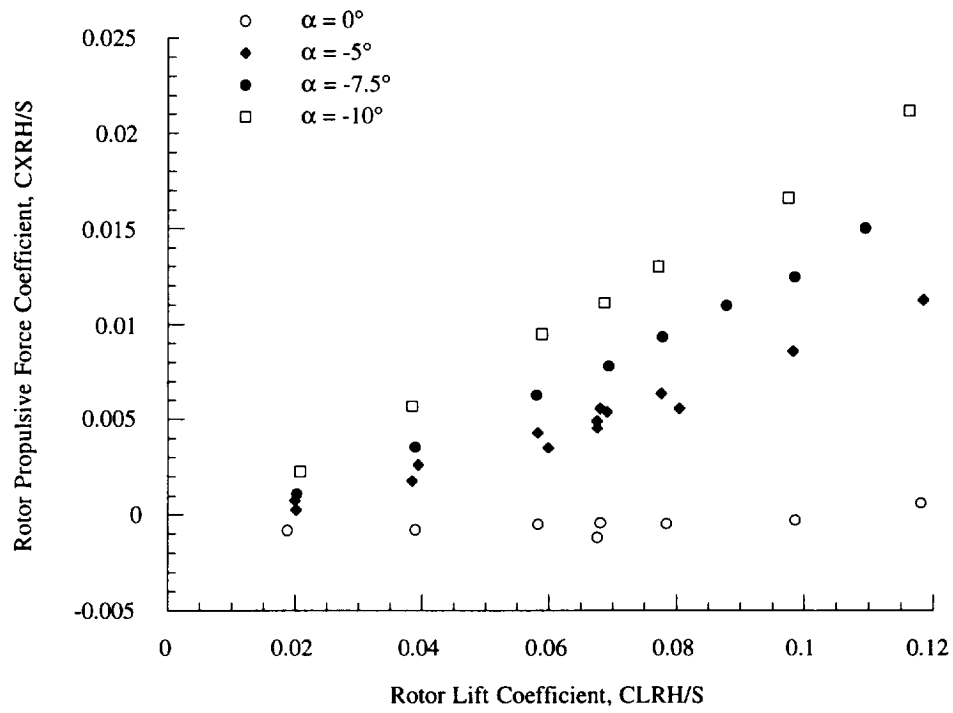


Figure 11(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 90 knots.

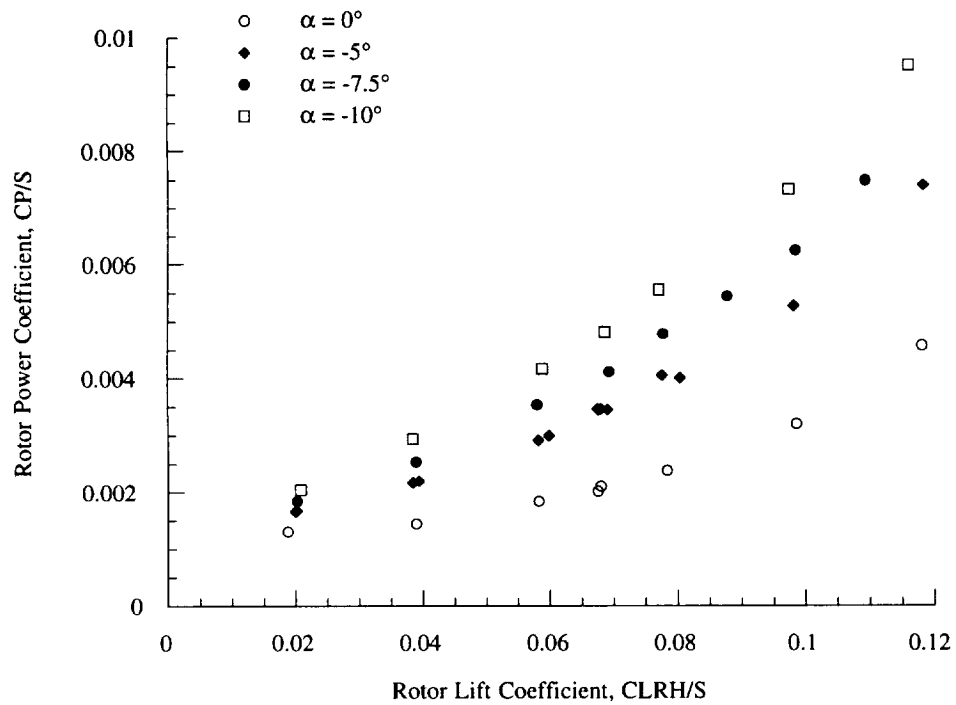


Figure 11(b). Rotor power coefficient as a function of rotor lift coefficient, 90 knots.

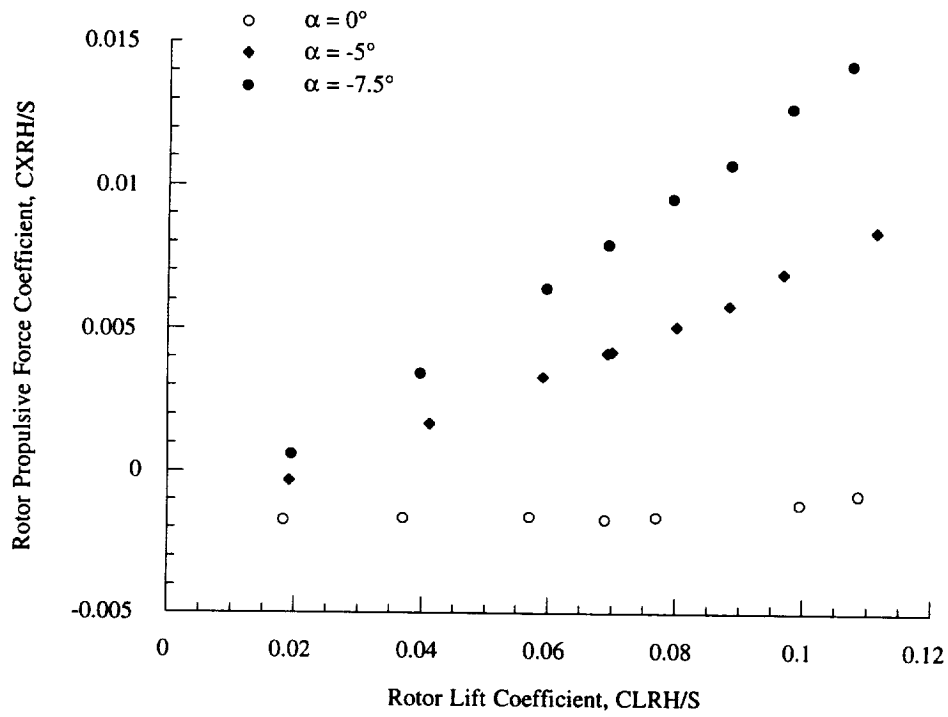


Figure 12(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 105 knots.

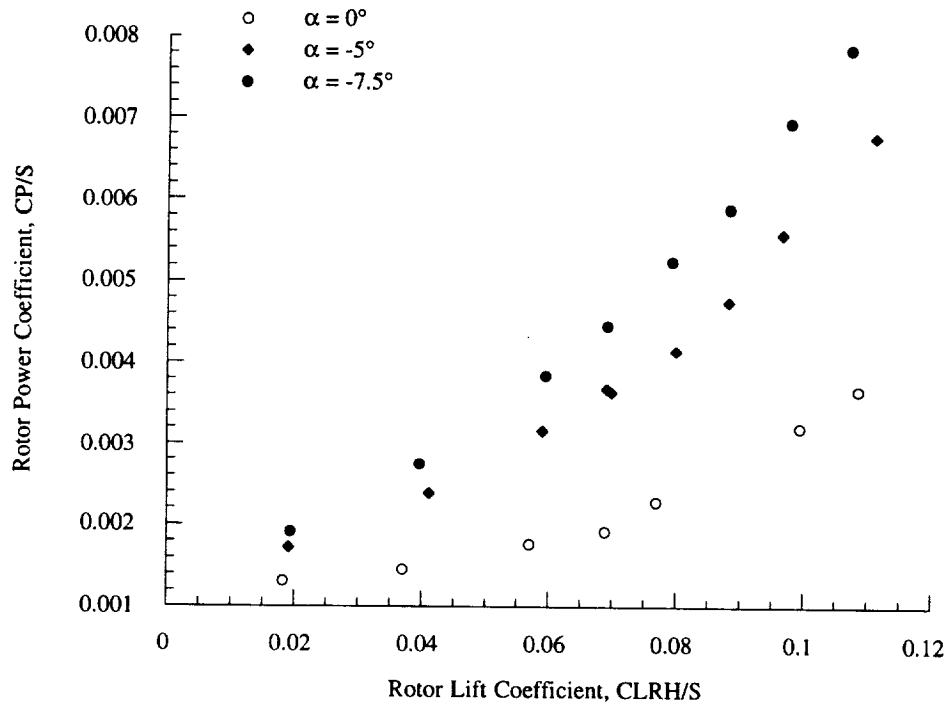


Figure 12(b). Rotor power coefficient as a function of rotor lift coefficient, 105 knots.

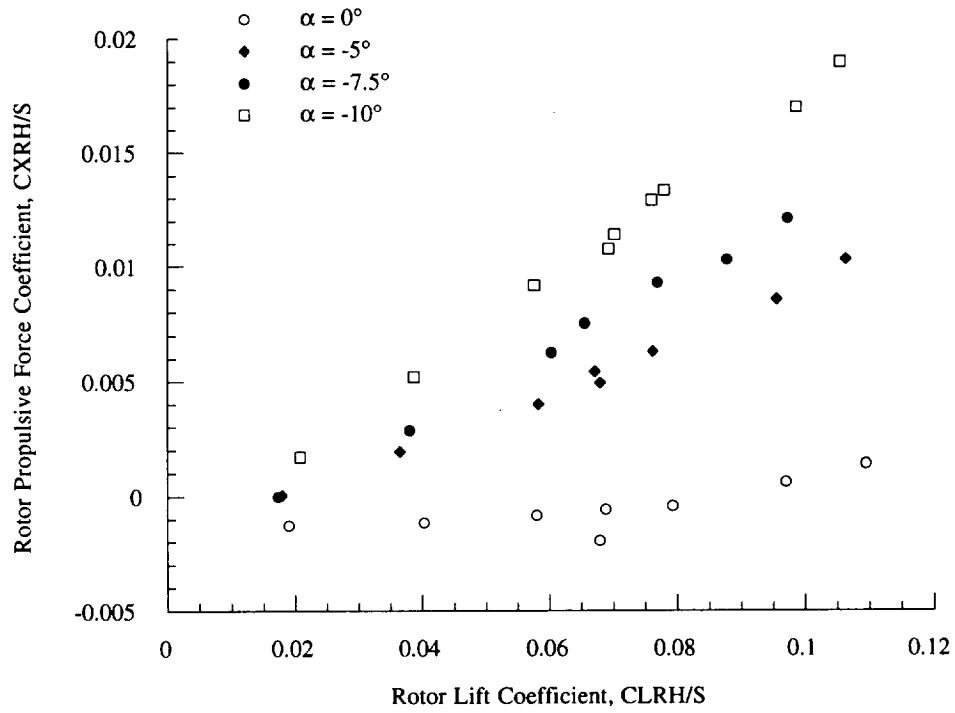


Figure 13(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 120 knots.

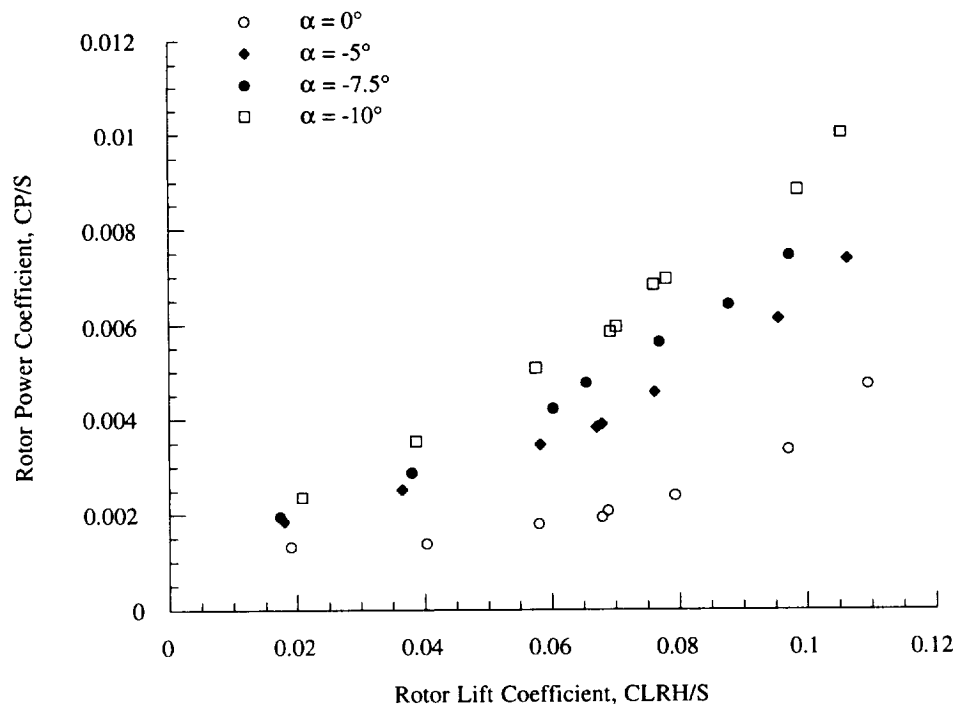


Figure 13(b). Rotor power coefficient as a function of rotor lift coefficient, 120 knots.

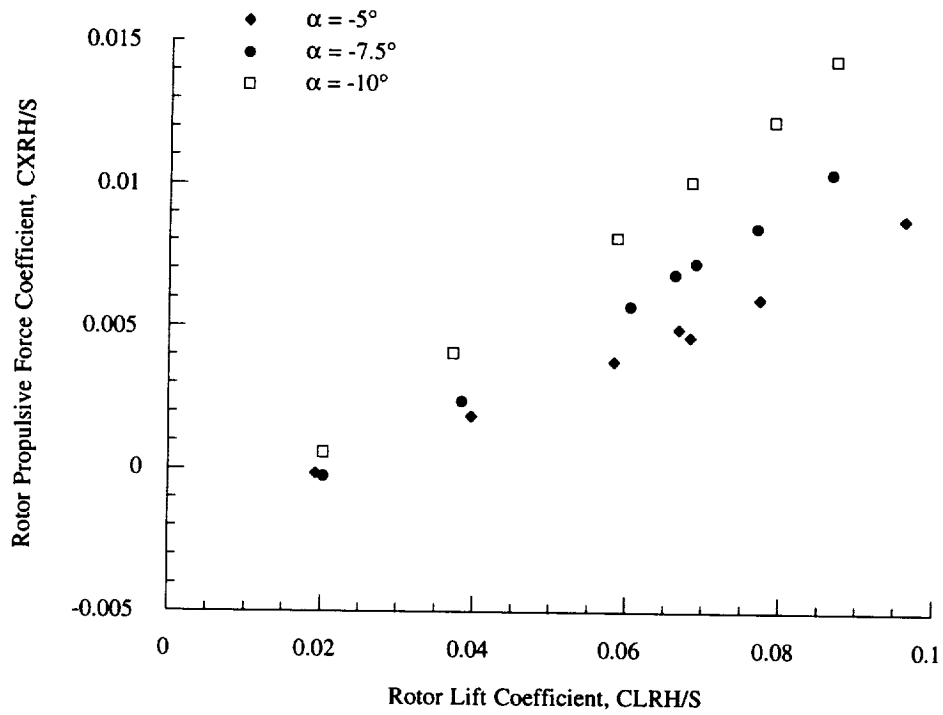


Figure 14(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 140 knots.

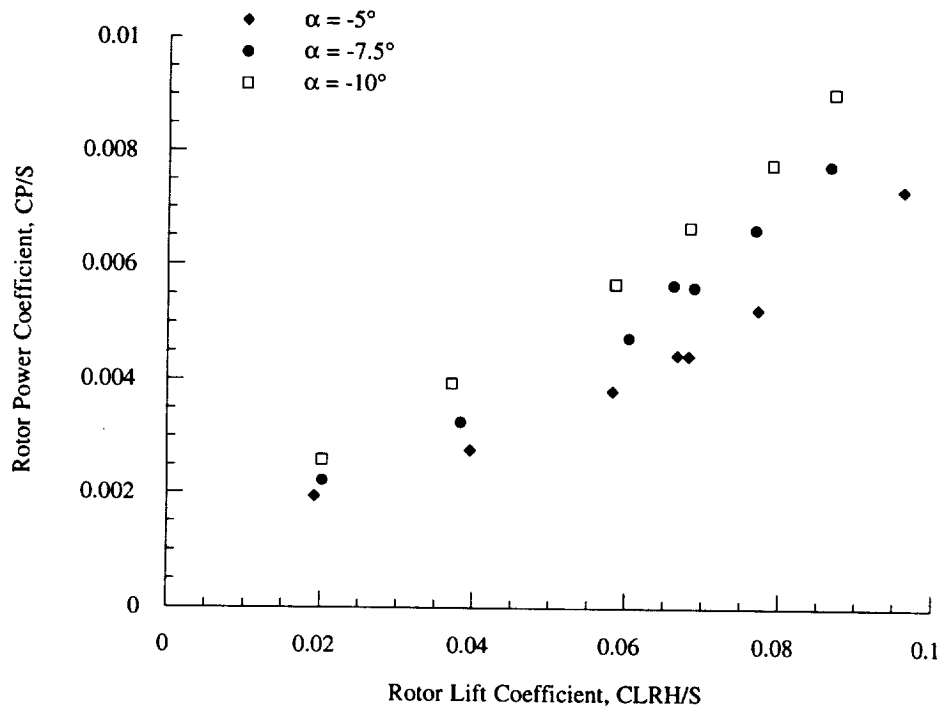


Figure 14(b). Rotor power coefficient as a function of rotor lift coefficient, 140 knots.

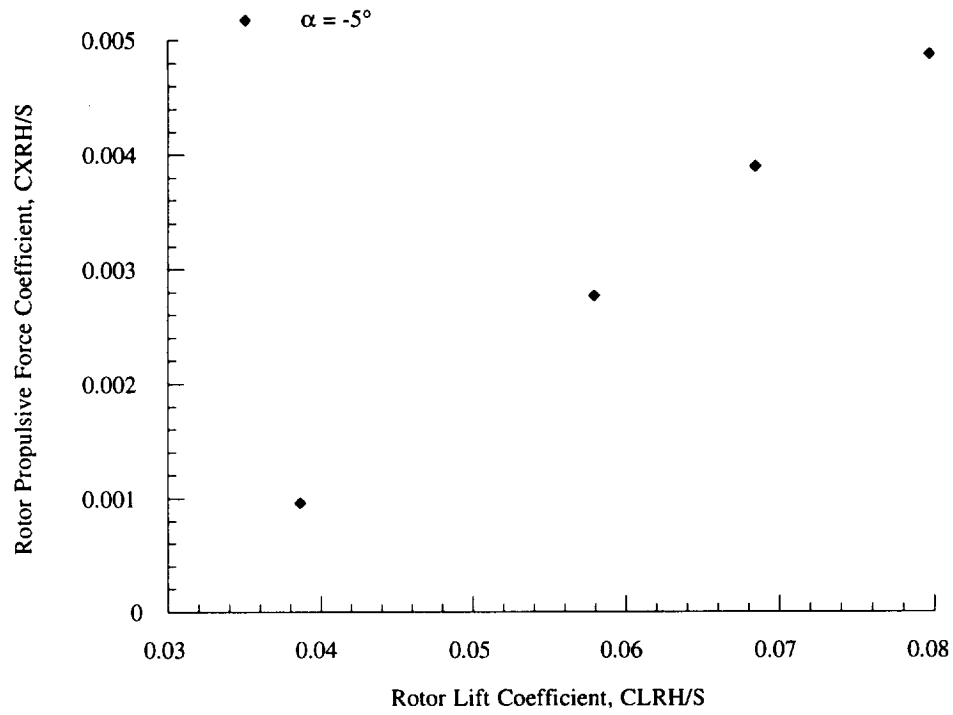


Figure 15(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 150 knots.

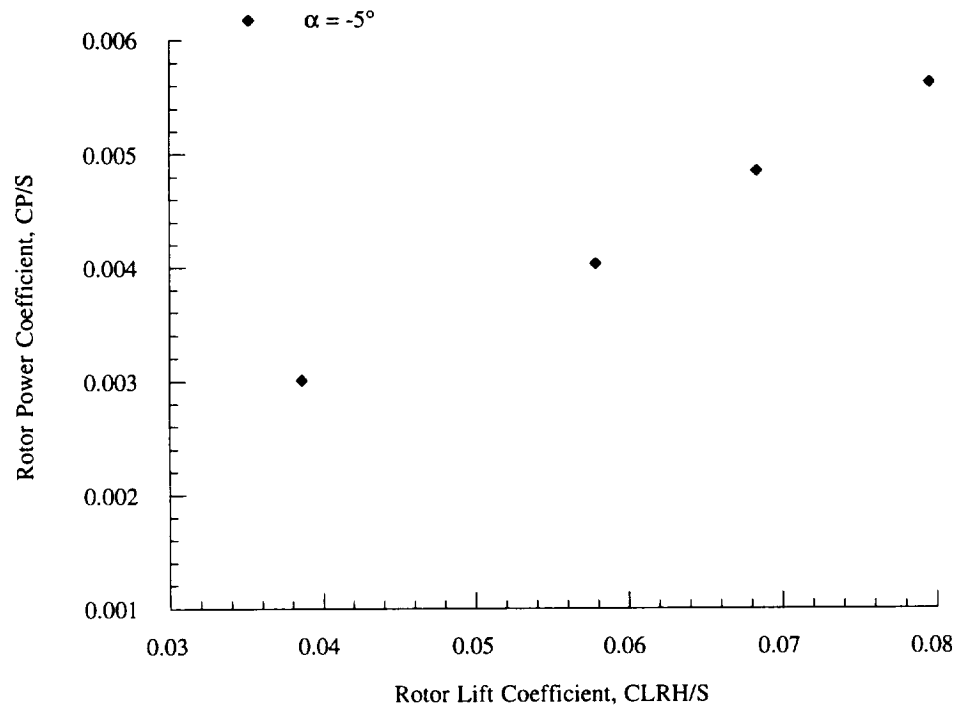


Figure 15(b). Rotor power coefficient as a function of rotor lift coefficient, 150 knots.

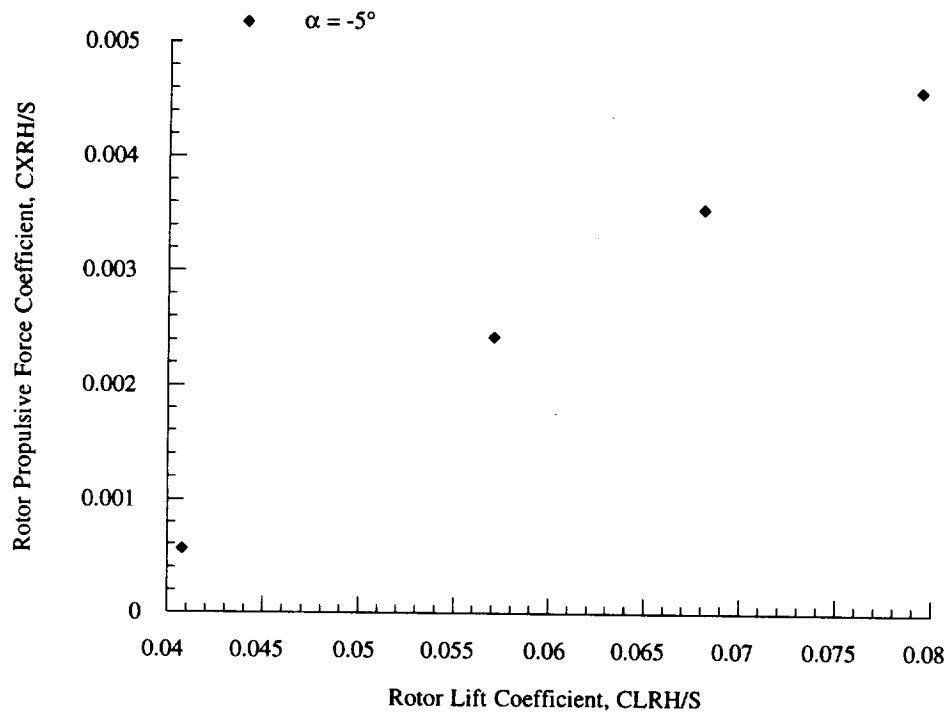


Figure 16(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 160 knots.

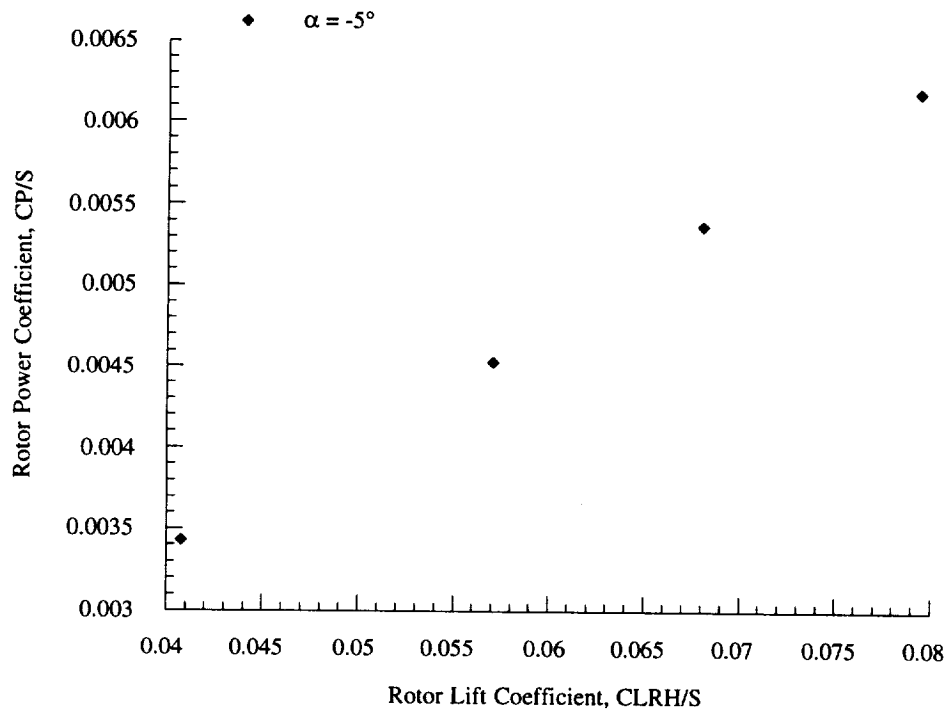


Figure 16(b). Rotor power coefficient as a function of rotor lift coefficient, 160 knots.

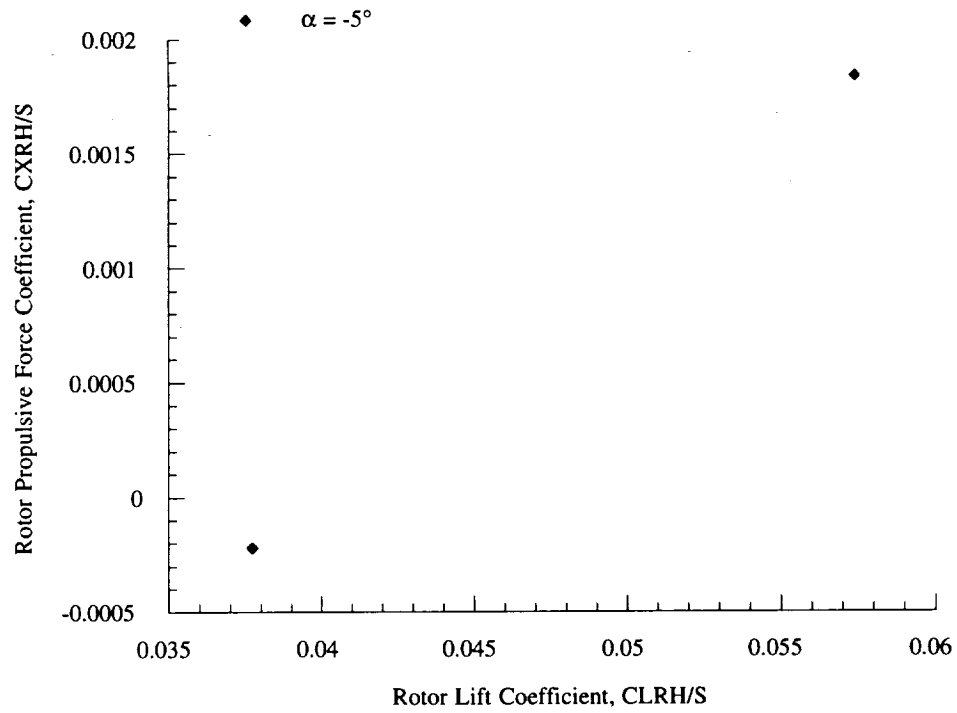


Figure 17(a). Rotor propulsive force coefficient as a function of rotor lift coefficient, 170 knots.

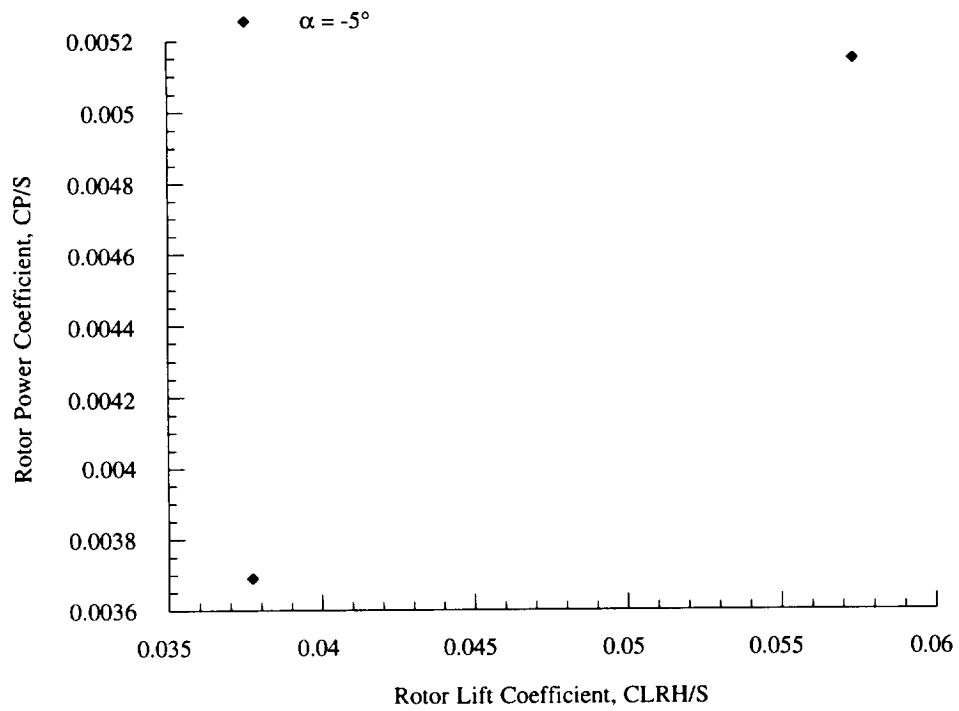


Figure 17(b). Rotor power coefficient as a function of rotor lift coefficient, 170 knots.

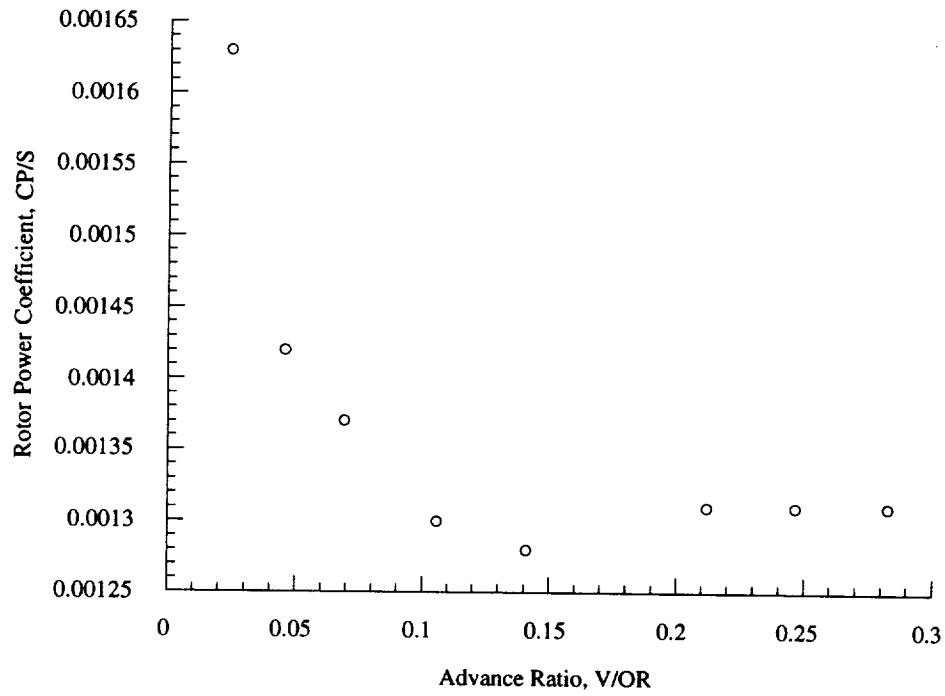


Figure 18(a). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.02$.

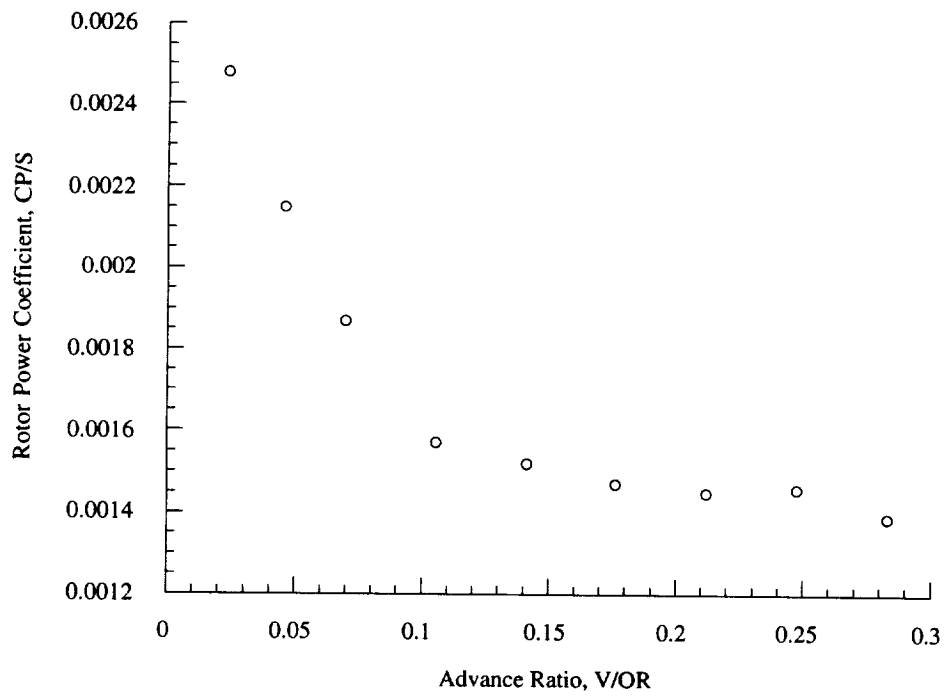


Figure 18(b). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.04$.

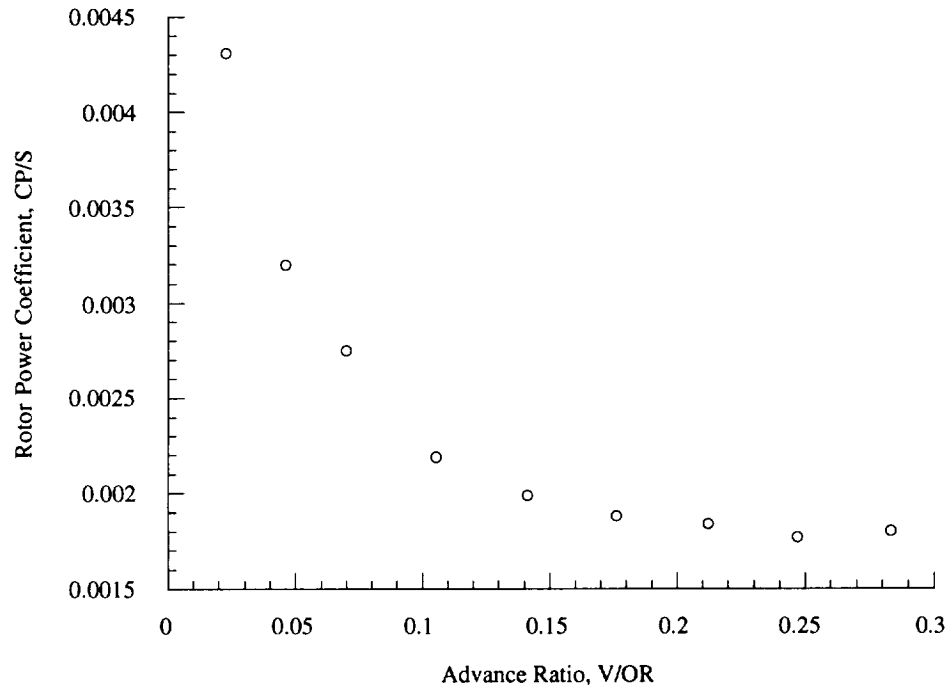


Figure 18(c). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.06$.

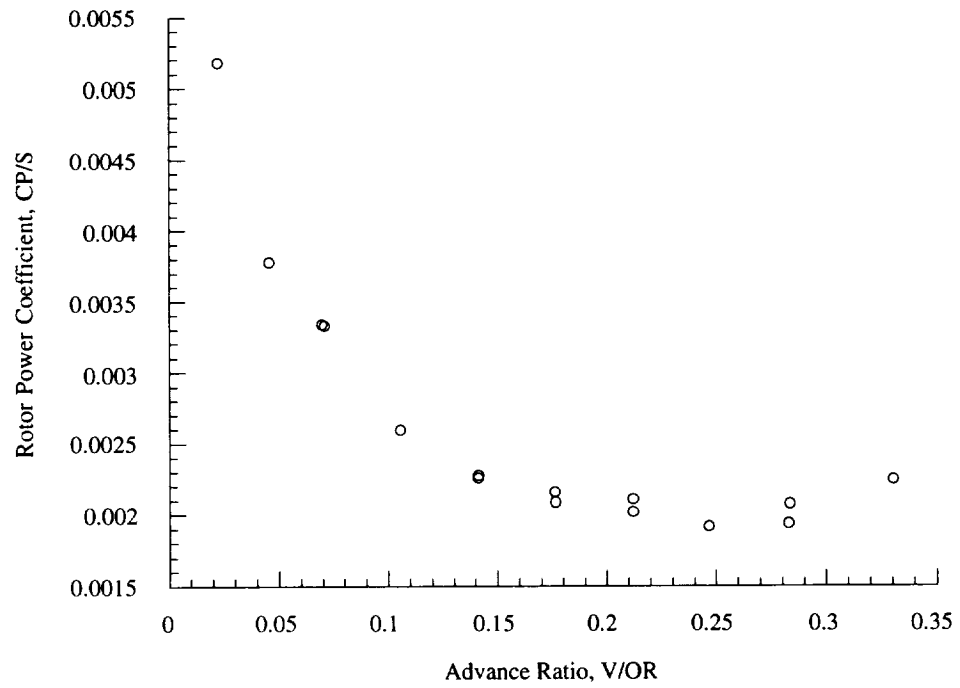


Figure 18(d). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.07$.

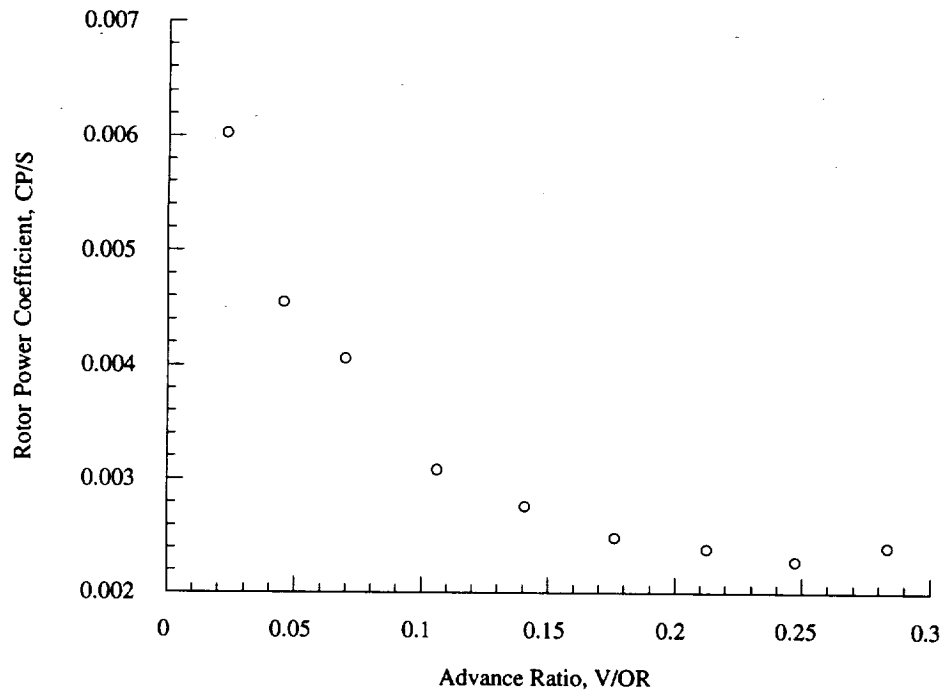


Figure 18(e). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.08$.

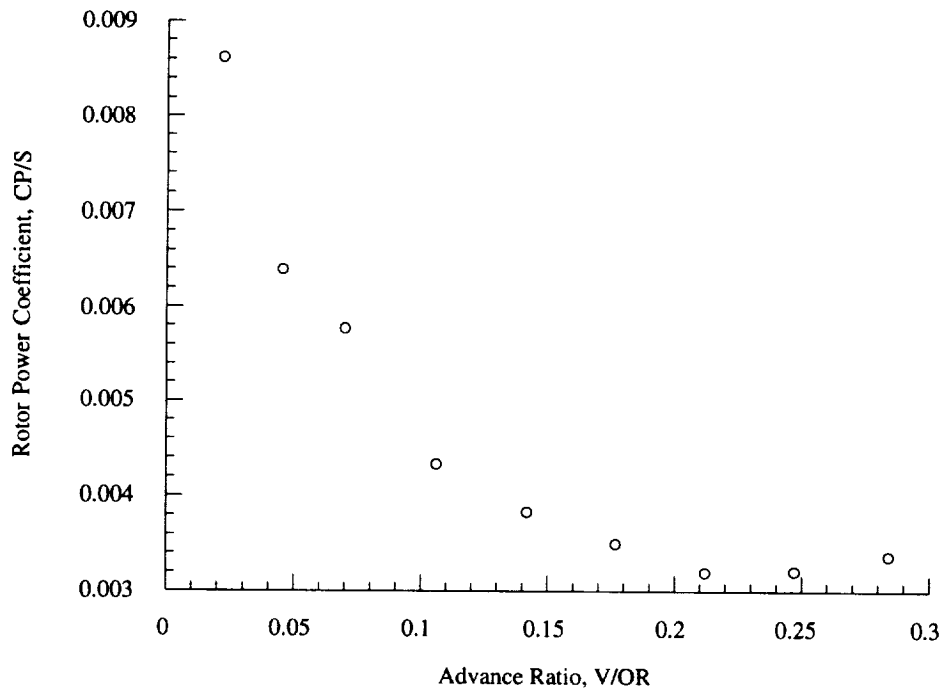


Figure 18(f). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.10$.

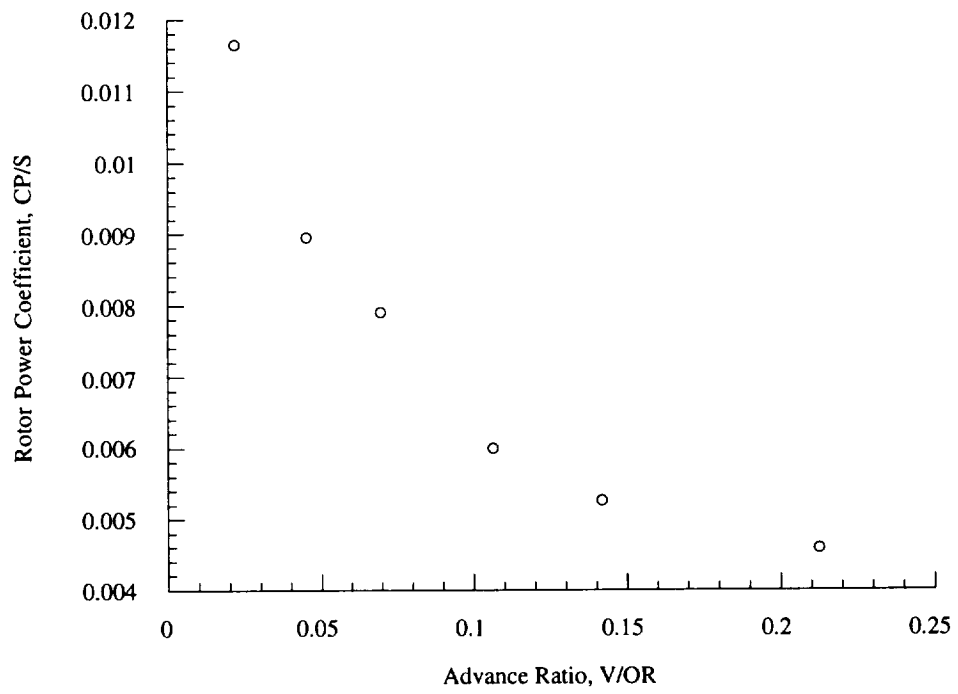


Figure 18(g). Rotor power coefficient as a function of advance ratio, $\alpha = 0$ deg, $C_T/\sigma = 0.12$.

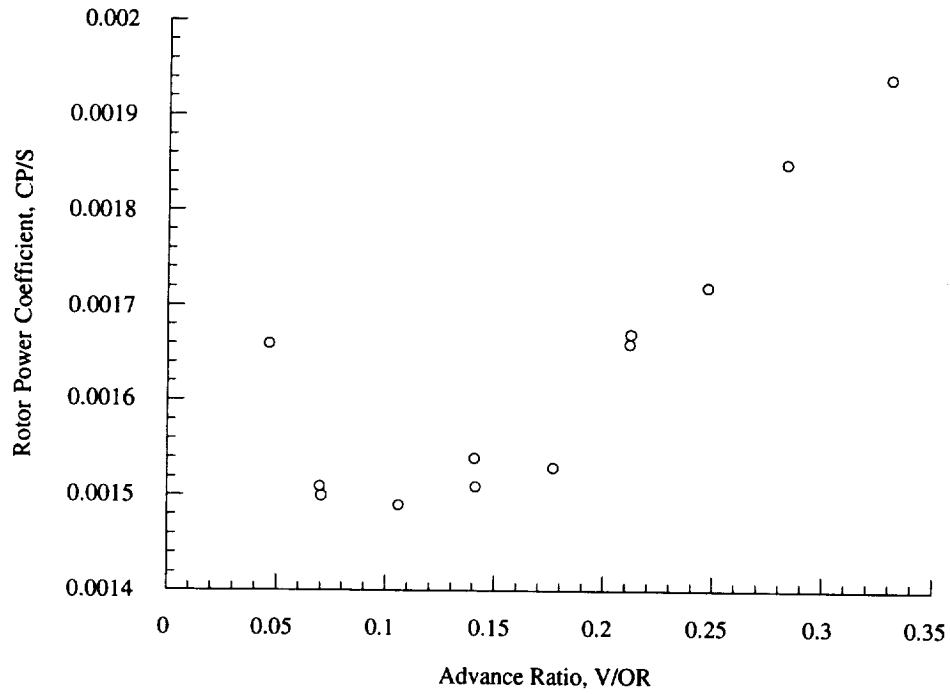


Figure 19(a). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.02$.

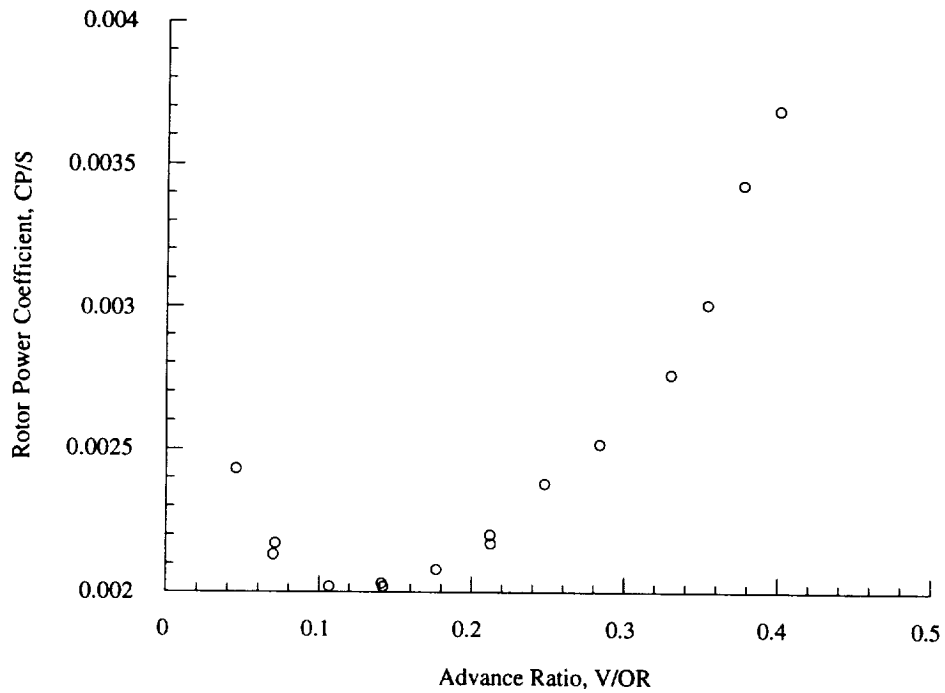


Figure 19(b). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.04$.

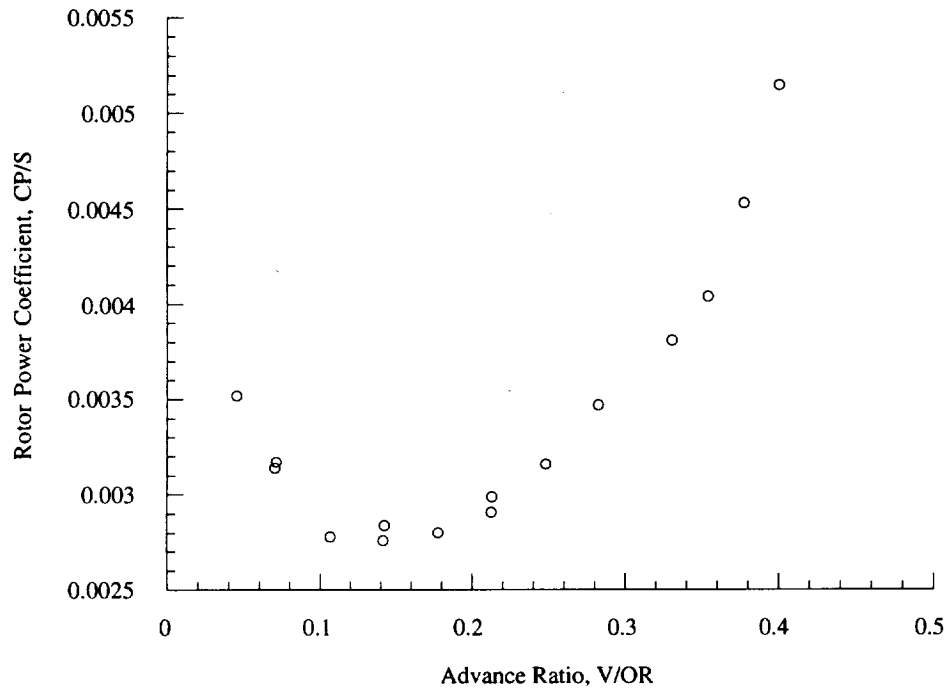


Figure 19(c). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.06$.

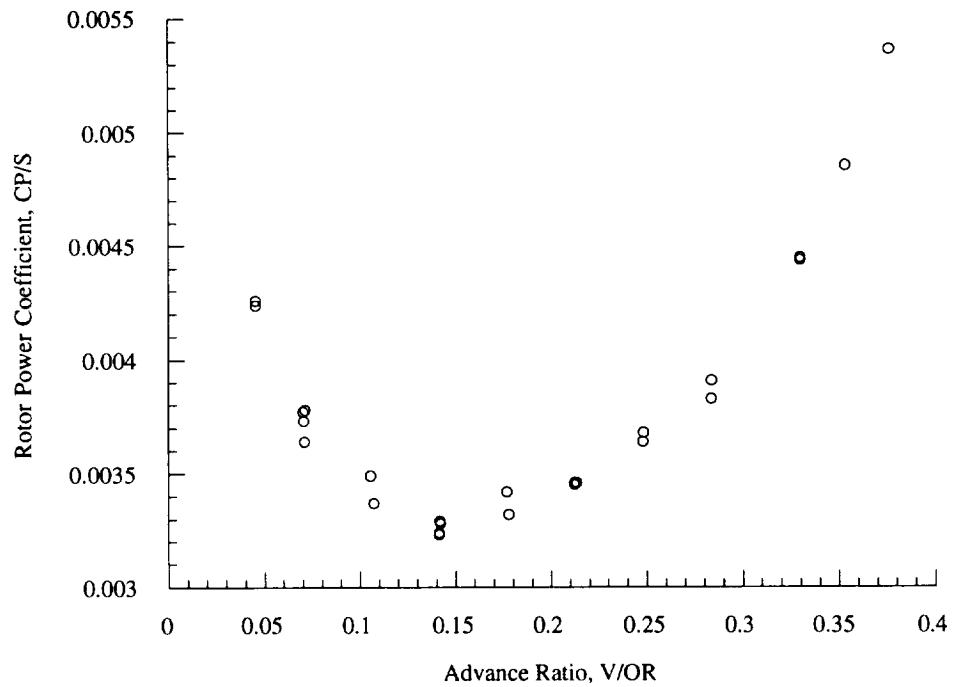


Figure 19(d). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.07$.

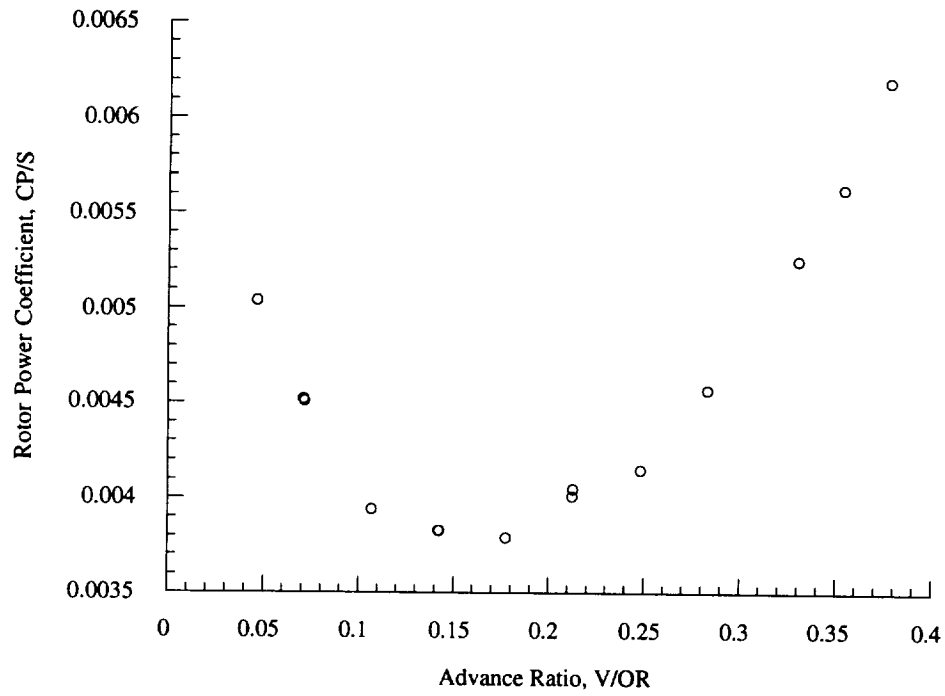


Figure 19(e). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.08$.

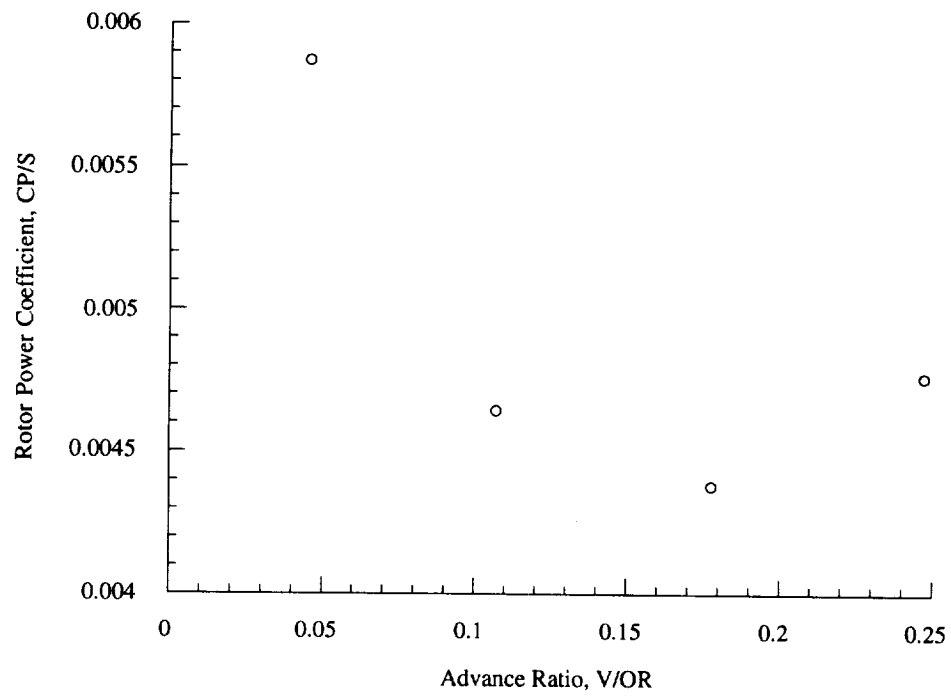


Figure 19(f). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.09$.

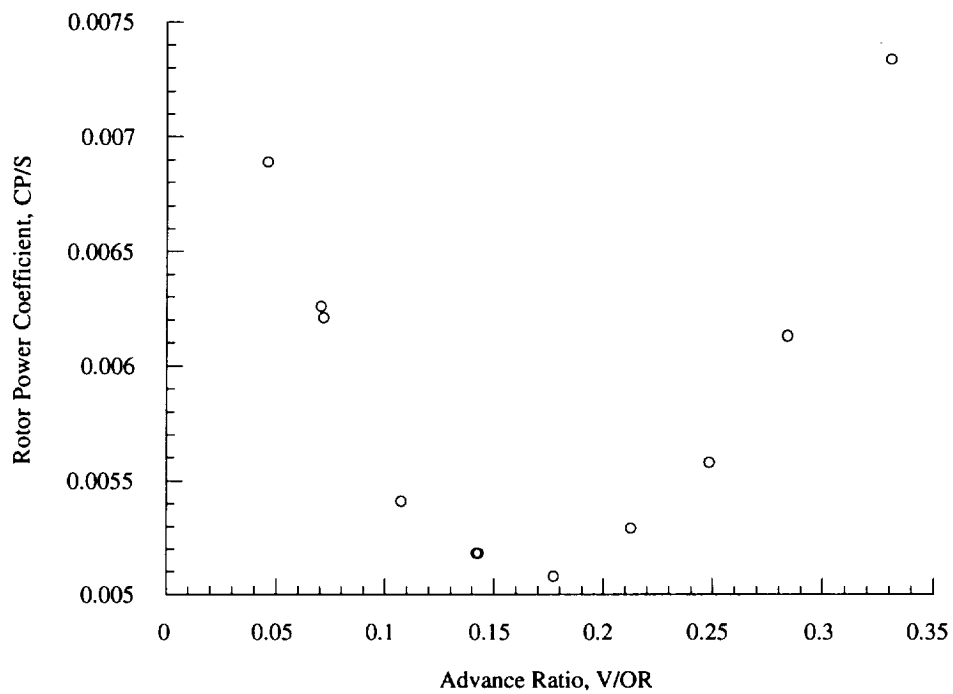


Figure 19(g). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.10$.

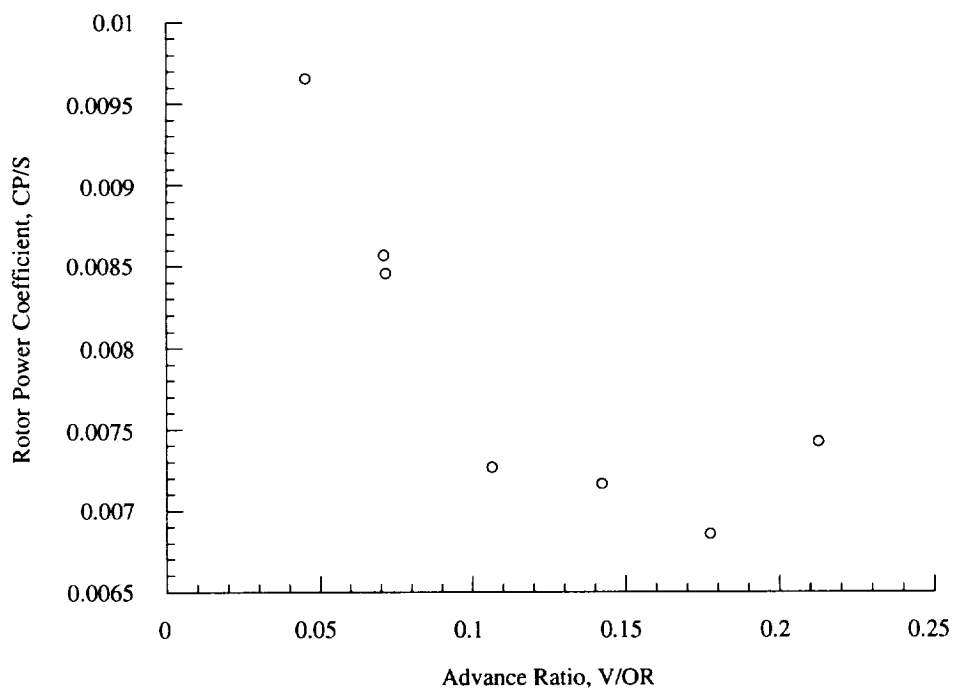


Figure 19(h). Rotor power coefficient as a function of advance ratio, $\alpha = -5$ deg, $C_T/\sigma = 0.12$.

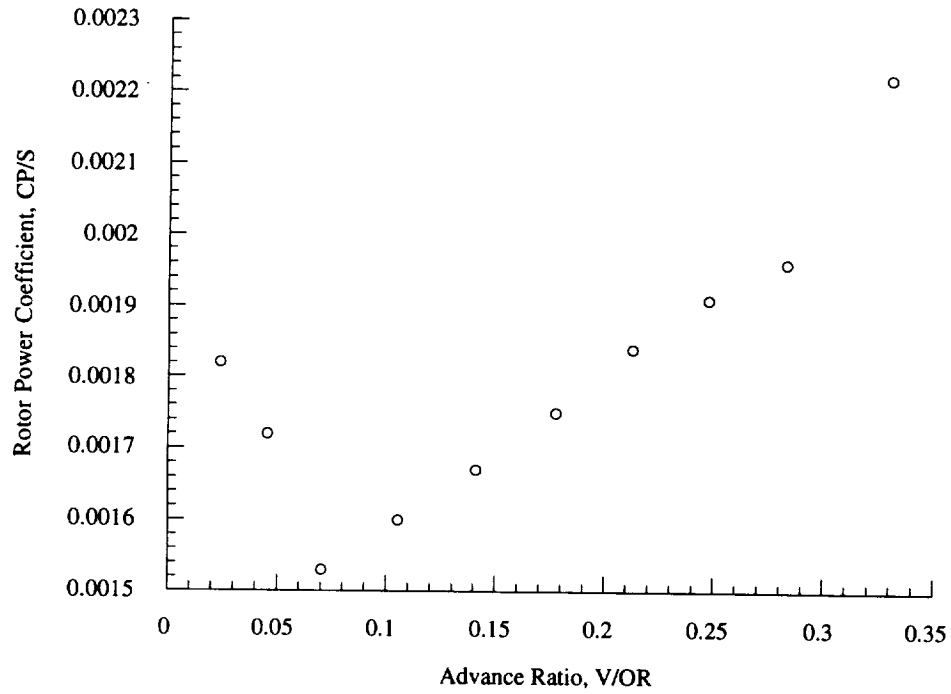


Figure 20(a). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.02$.

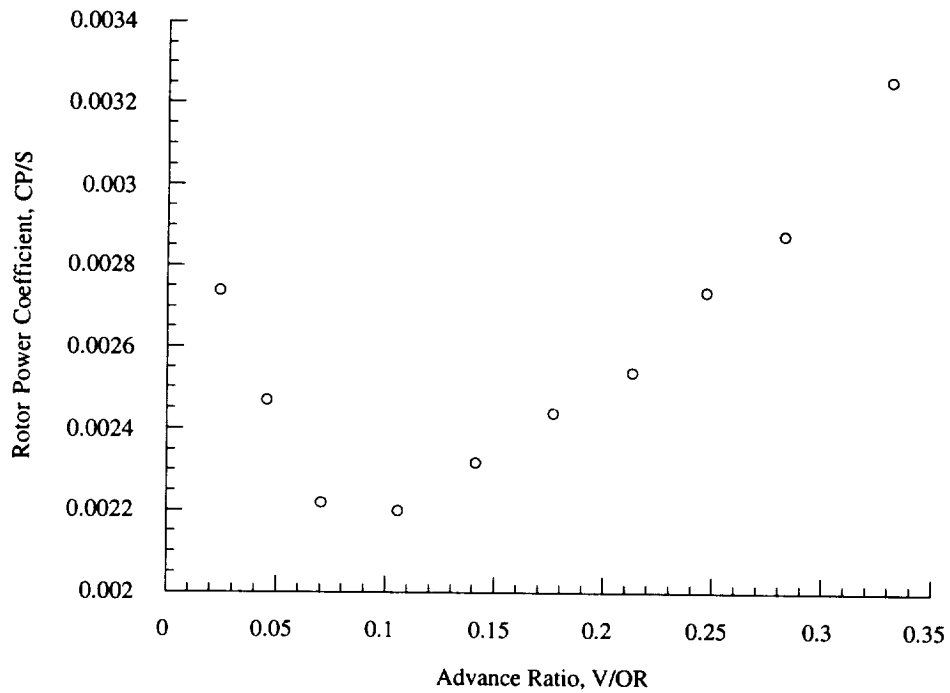


Figure 20(b). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.04$.

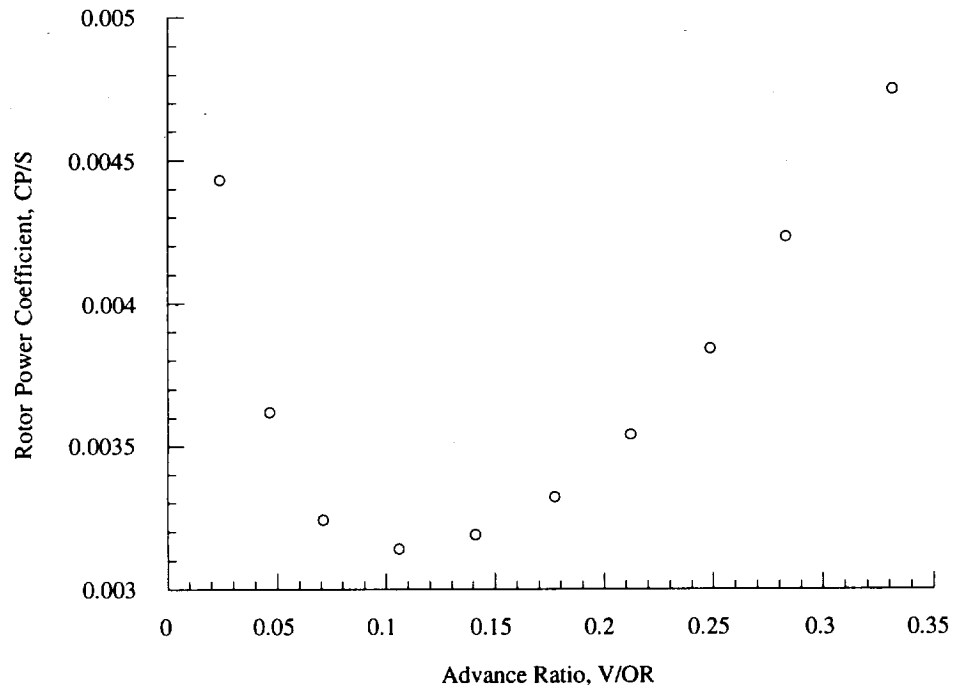


Figure 20(c). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.06$.

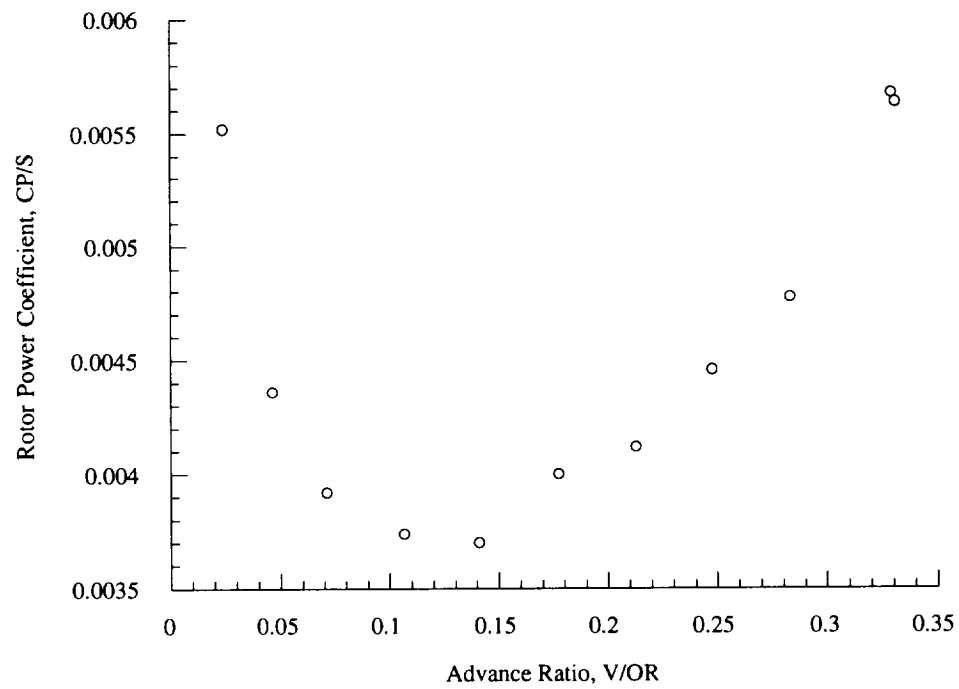


Figure 20(d). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.07$.

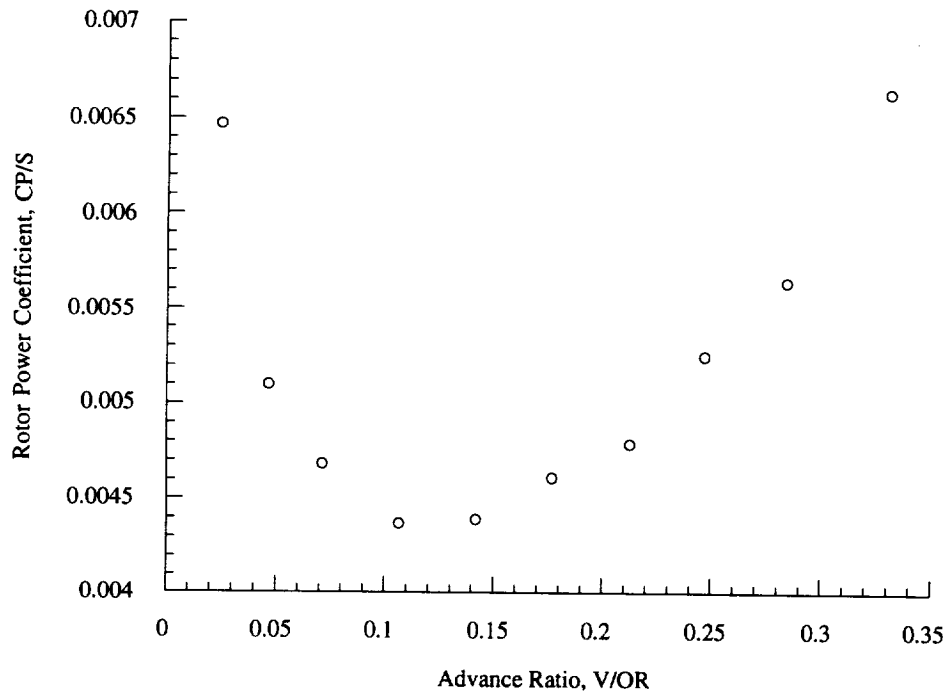


Figure 20(e). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.08$.

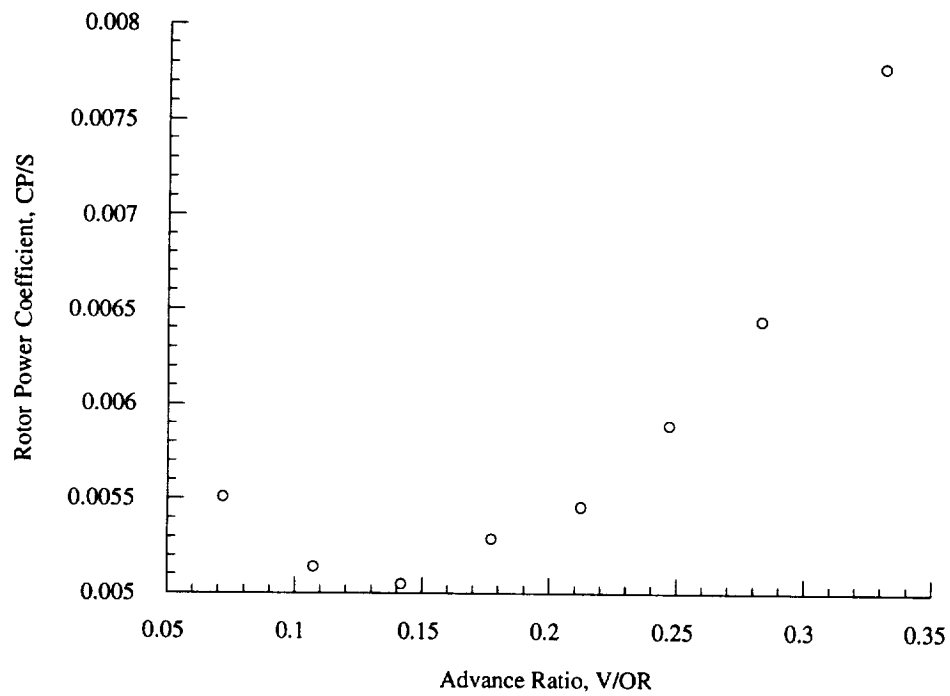


Figure 20(f). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.09$.

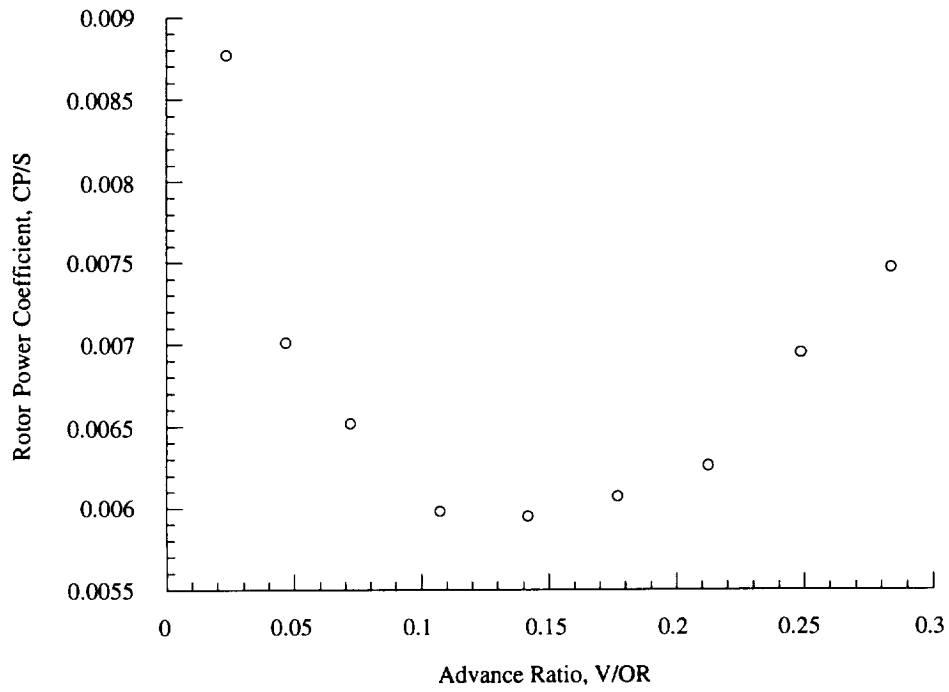


Figure 20(g). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.10$.

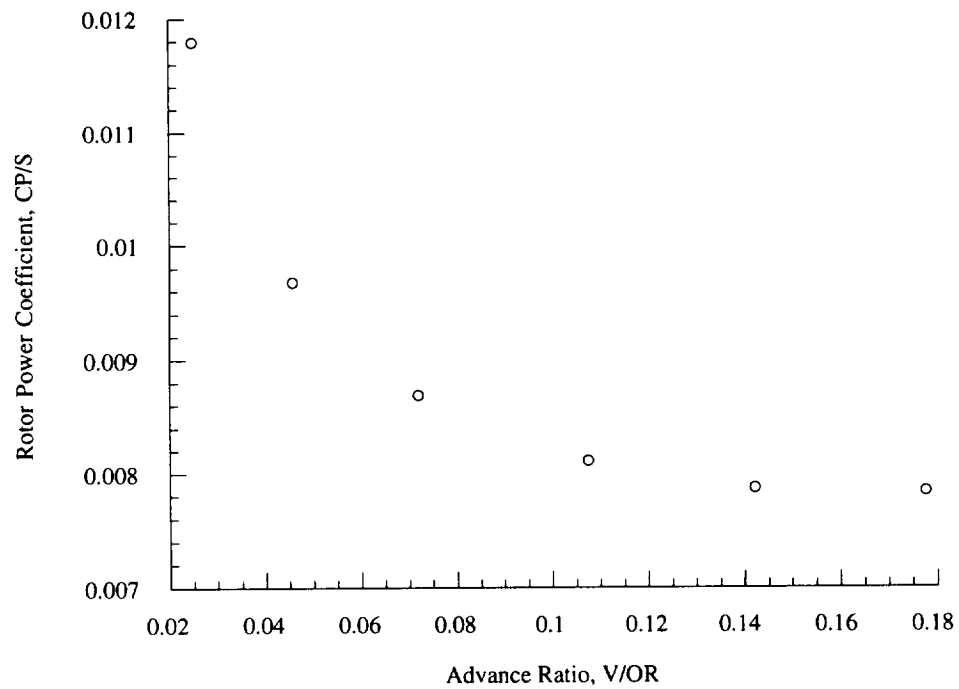


Figure 20(h). Rotor power coefficient as a function of advance ratio, $\alpha = -7.5$ deg, $C_T/\sigma = 0.12$.

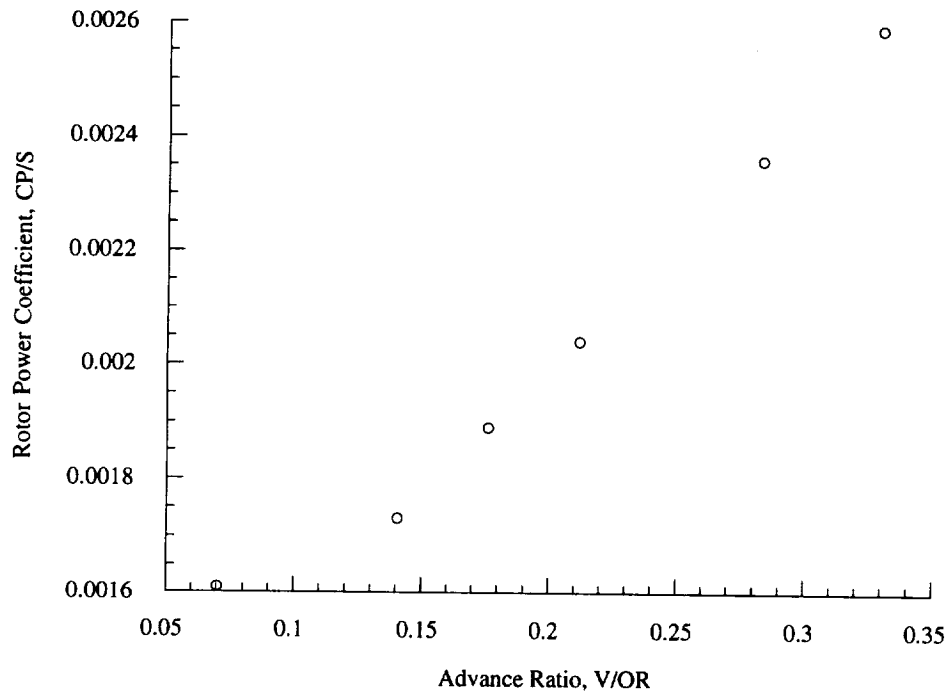


Figure 21(a). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.02$.

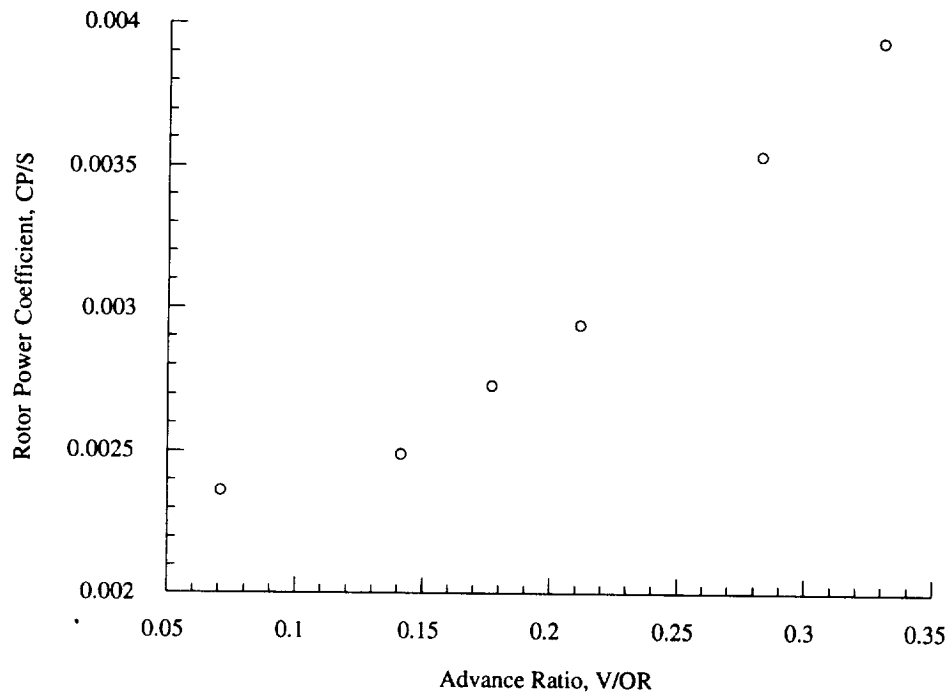


Figure 21(b). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.04$.

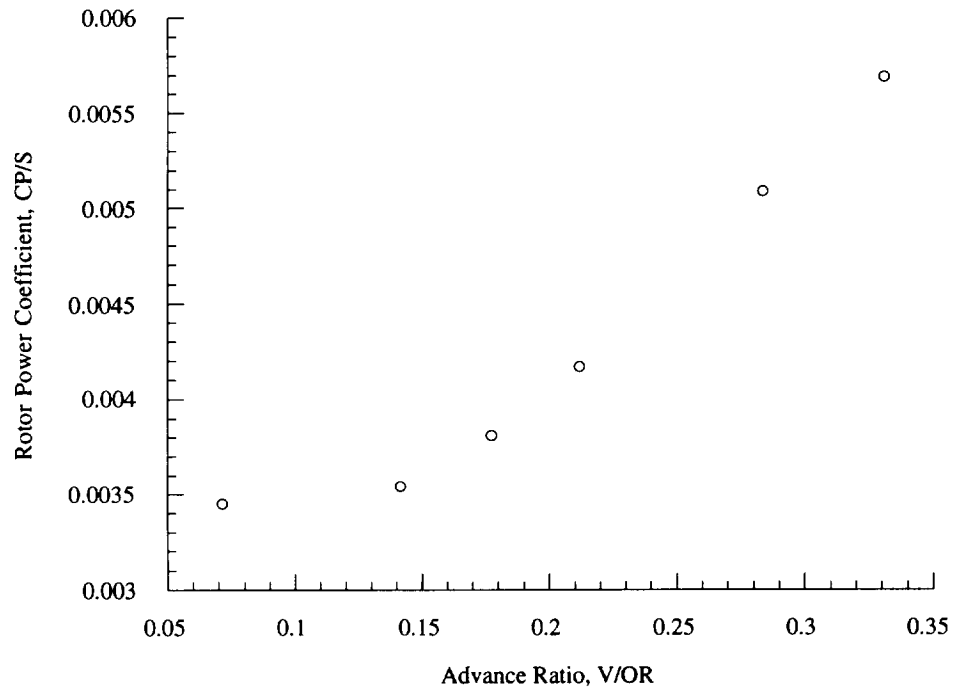


Figure 21(c). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.06$.

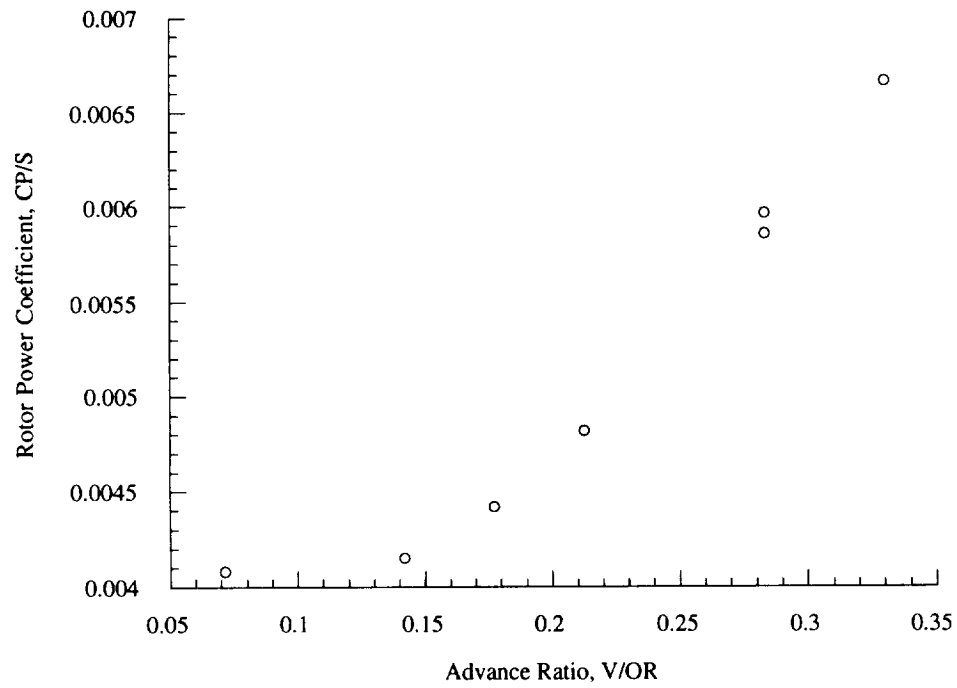


Figure 21(d). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.07$.

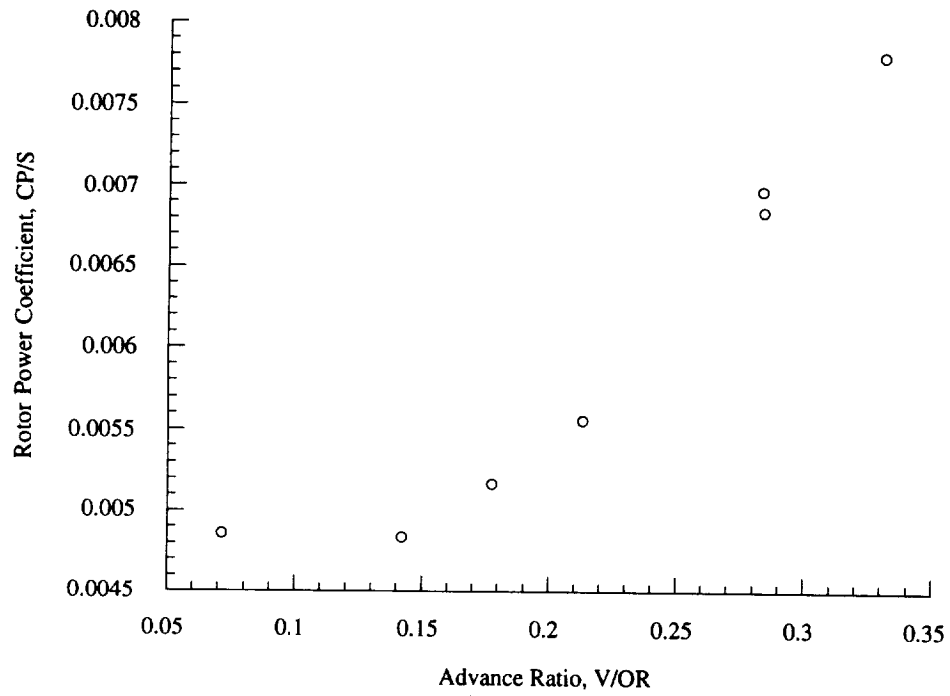


Figure 21(e). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.08$.

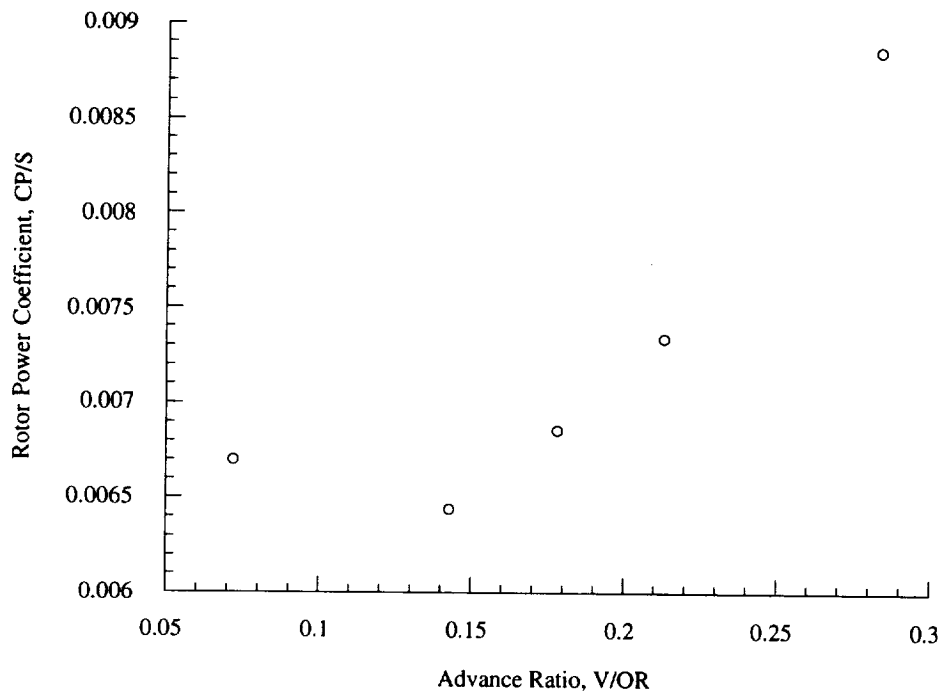


Figure 21(f). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.10$.

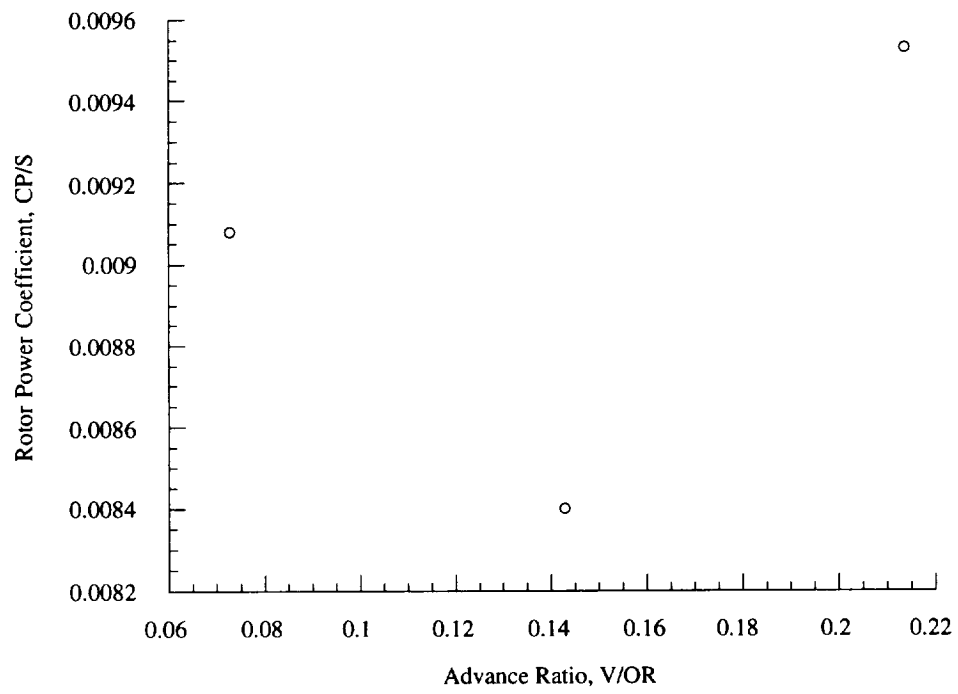


Figure 21(g). Rotor power coefficient as a function of advance ratio, $\alpha = -10$ deg, $C_T/\sigma = 0.12$.

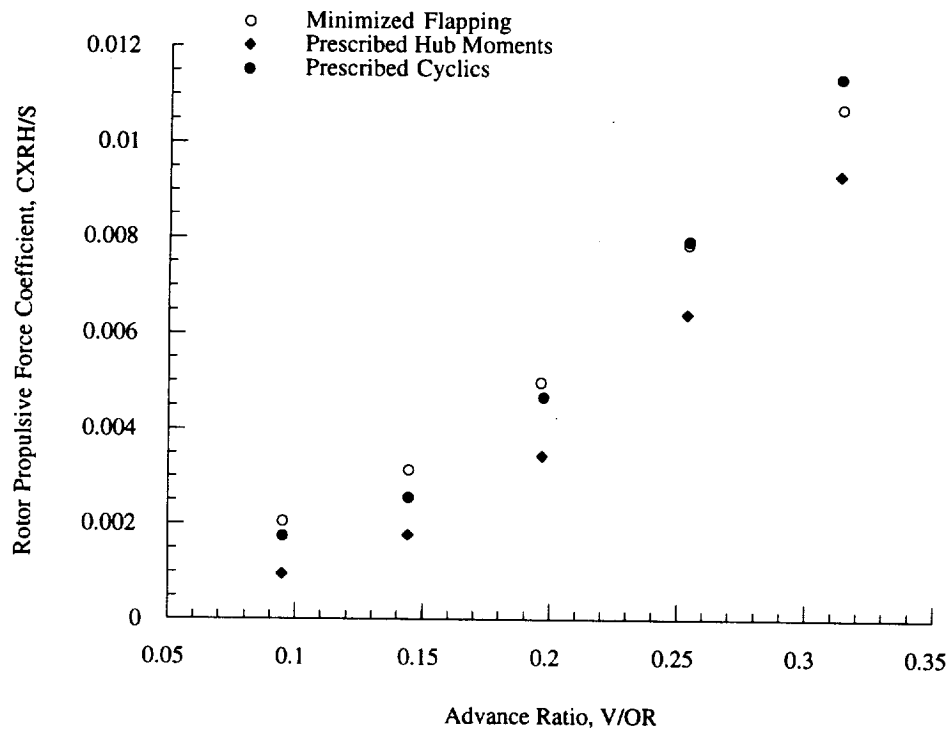


Figure 22(a). Rotor propulsive force coefficient as a function of advance ratio, $C_T/\sigma = 0.071$.

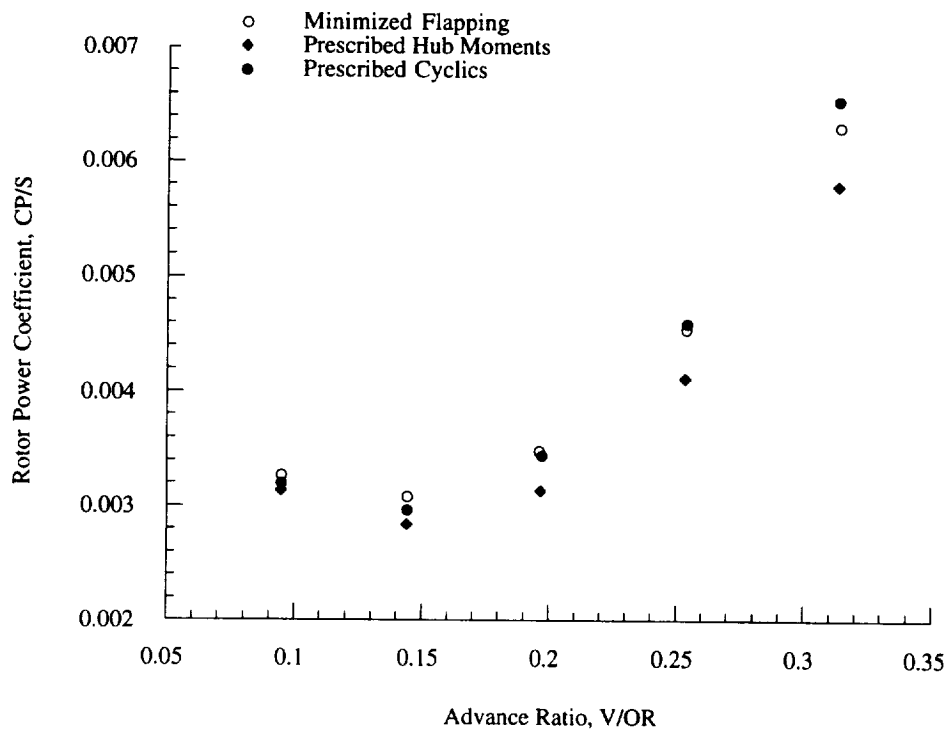


Figure 22(b). Rotor power coefficient as a function of advance ratio, $C_T/\sigma = 0.071$.

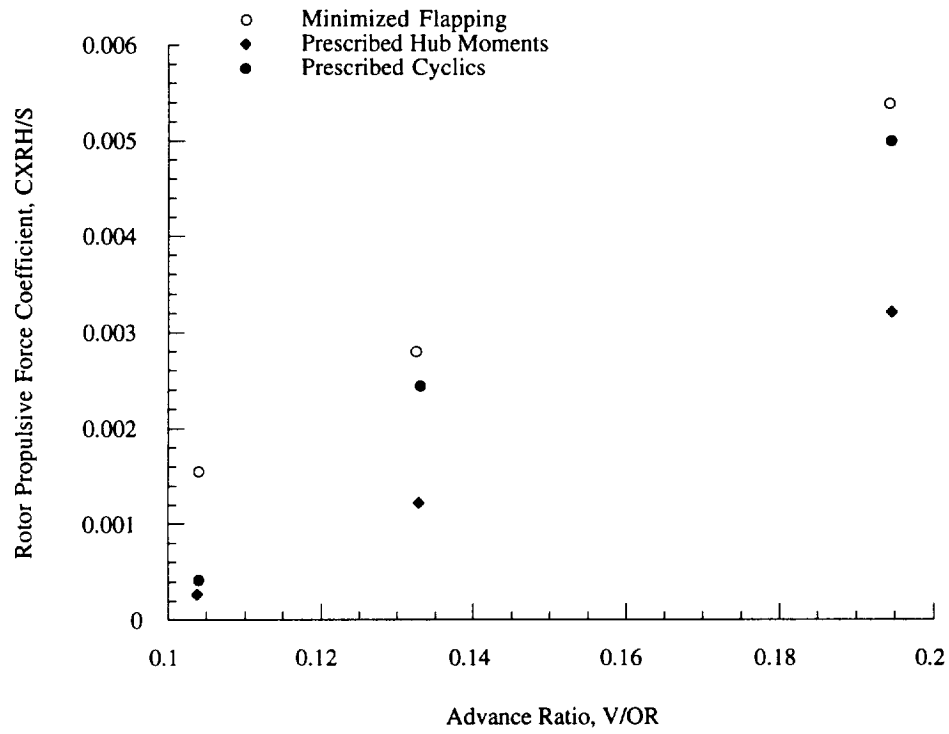


Figure 23(a). Rotor propulsive force coefficient as a function of advance ratio, $C_T/\sigma = 0.089$.

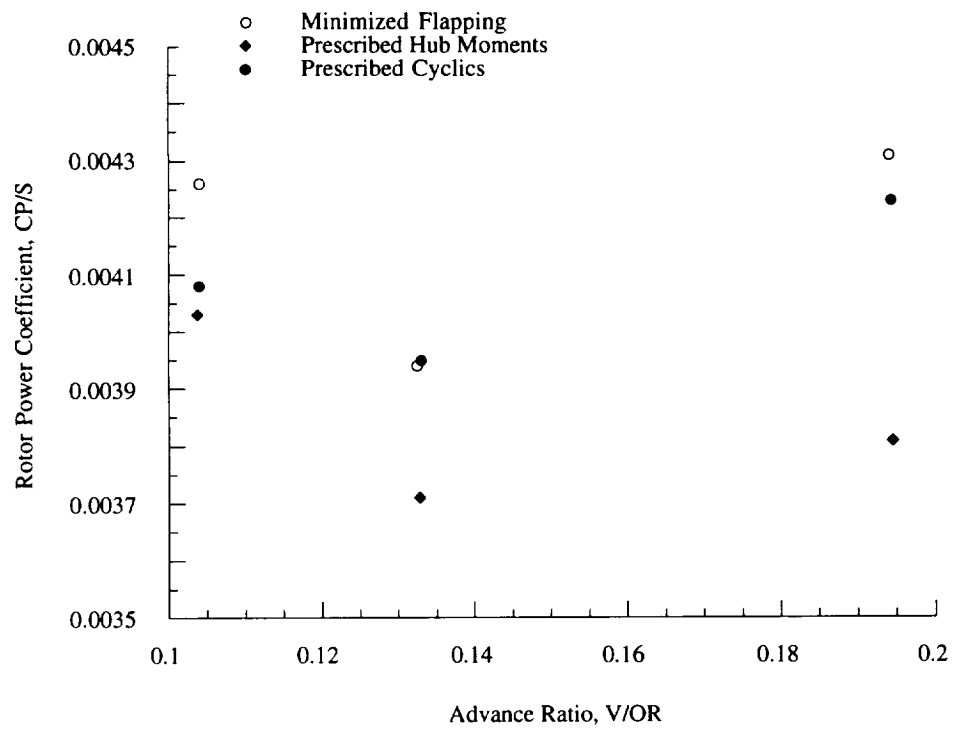


Figure 23(b). Rotor power coefficient as a function of advance ratio, $C_T/\sigma = 0.089$.

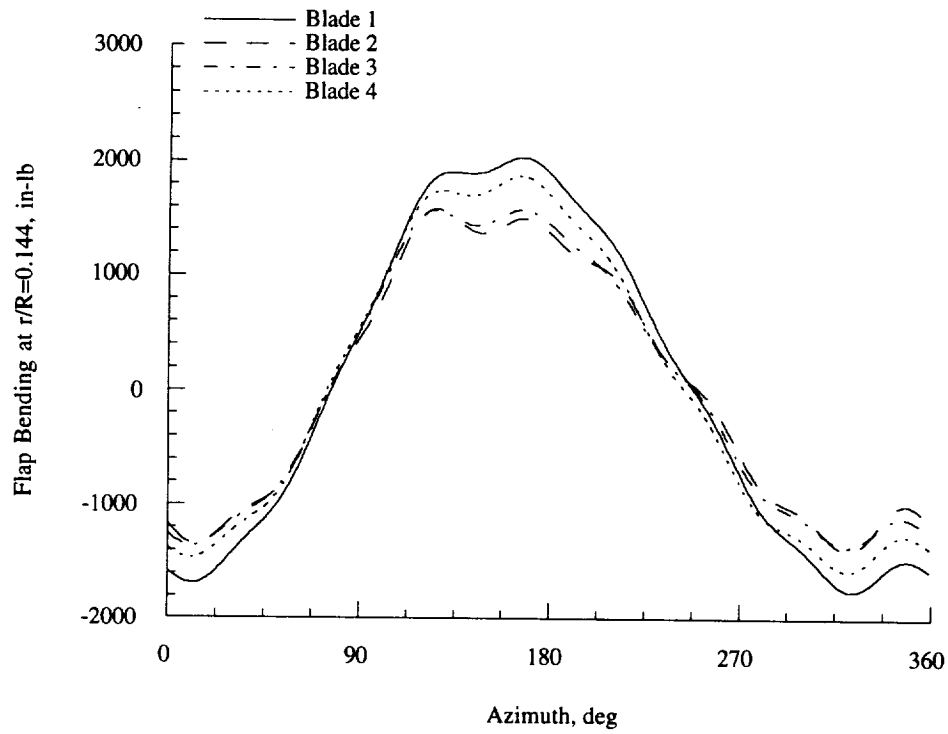


Figure 24. Comparison of oscillatory flap bending moments for all four blades at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

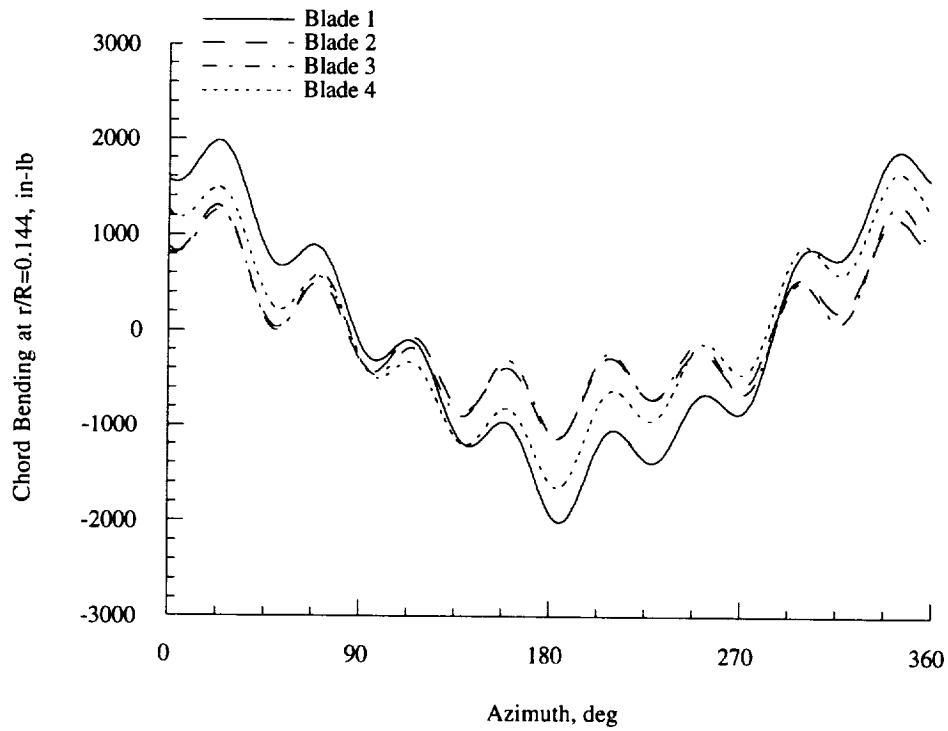


Figure 25. Comparison of oscillatory chord bending moments for all four blades at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

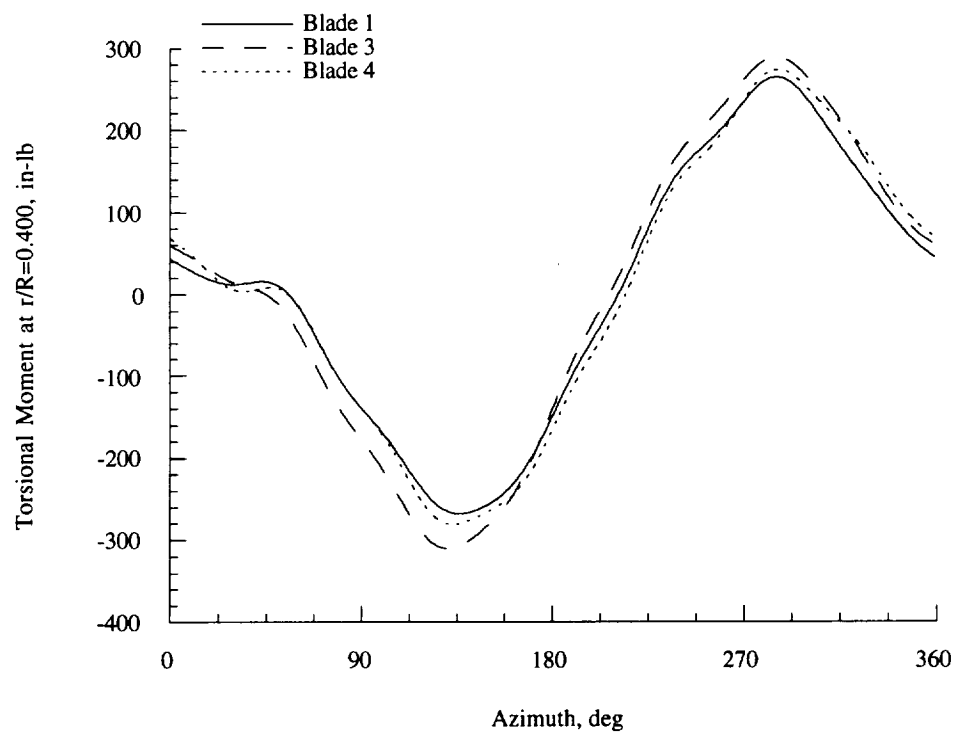


Figure 26. Comparison of oscillatory torsional moments for all four blades at $r/R = 0.400$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

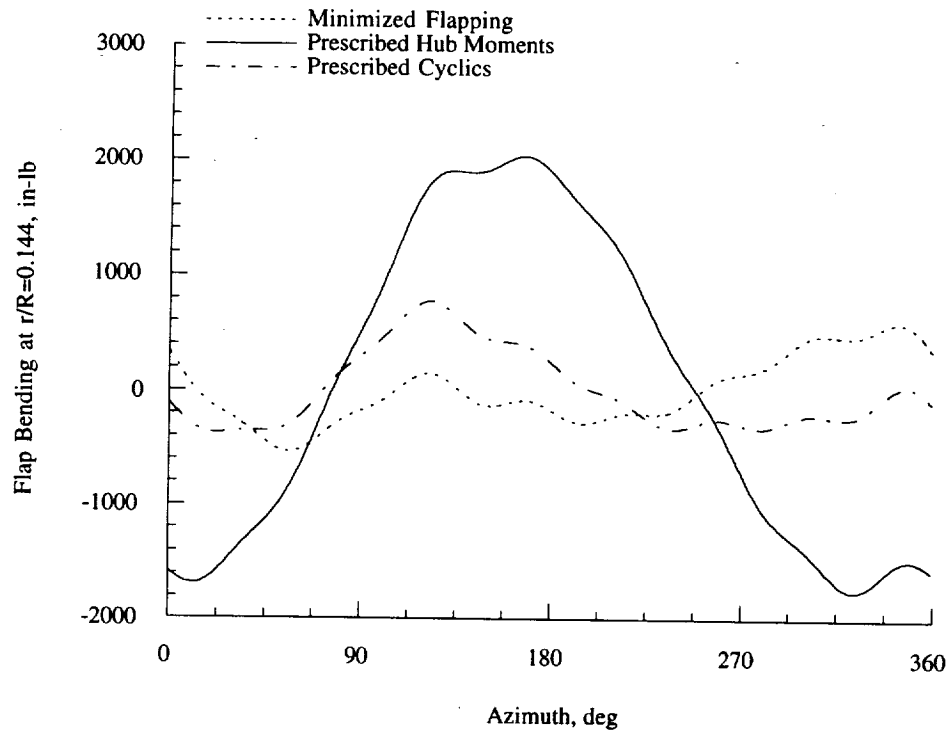


Figure 27(a). Comparison of oscillatory flap bending moments with three different wind tunnel trim procedures, flap bending moment at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

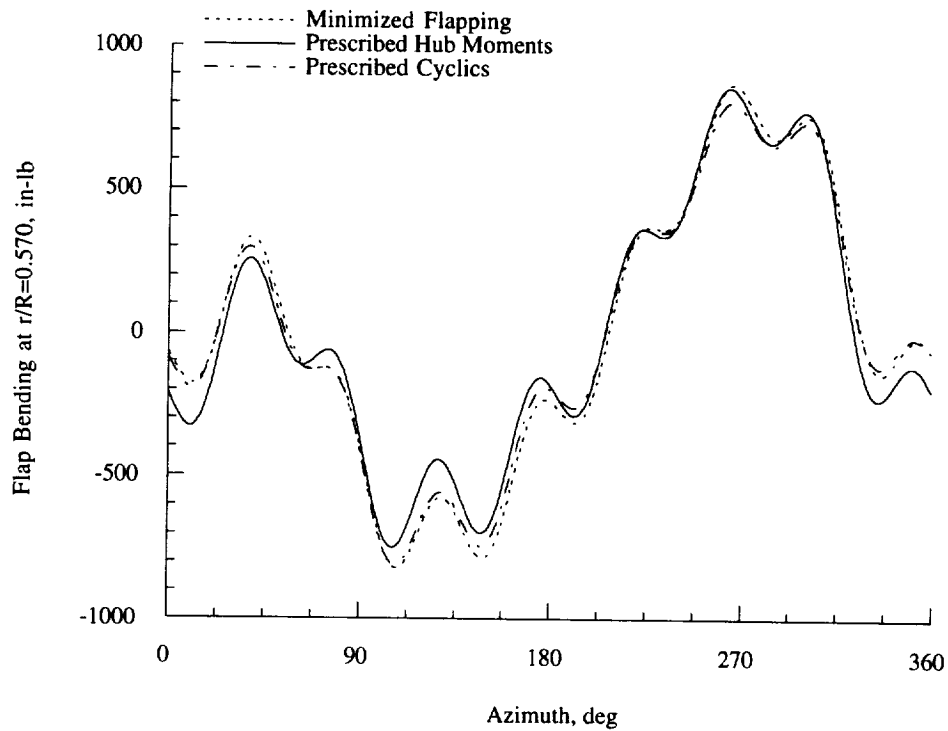


Figure 27(b). Comparison of oscillatory flap bending moments with three different wind tunnel trim procedures, flap bending moment at $r/R = 0.570$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

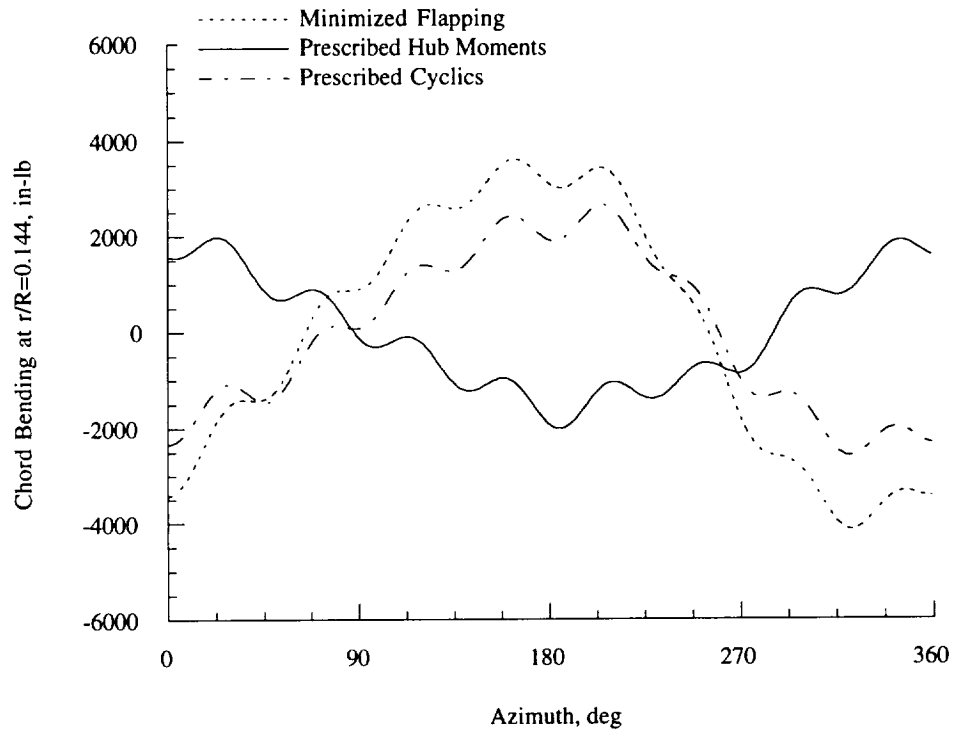


Figure 28(a). Comparison of oscillatory chord bending moments with three different wind tunnel trim procedures, chord bending moment at $r/R = 0.144$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

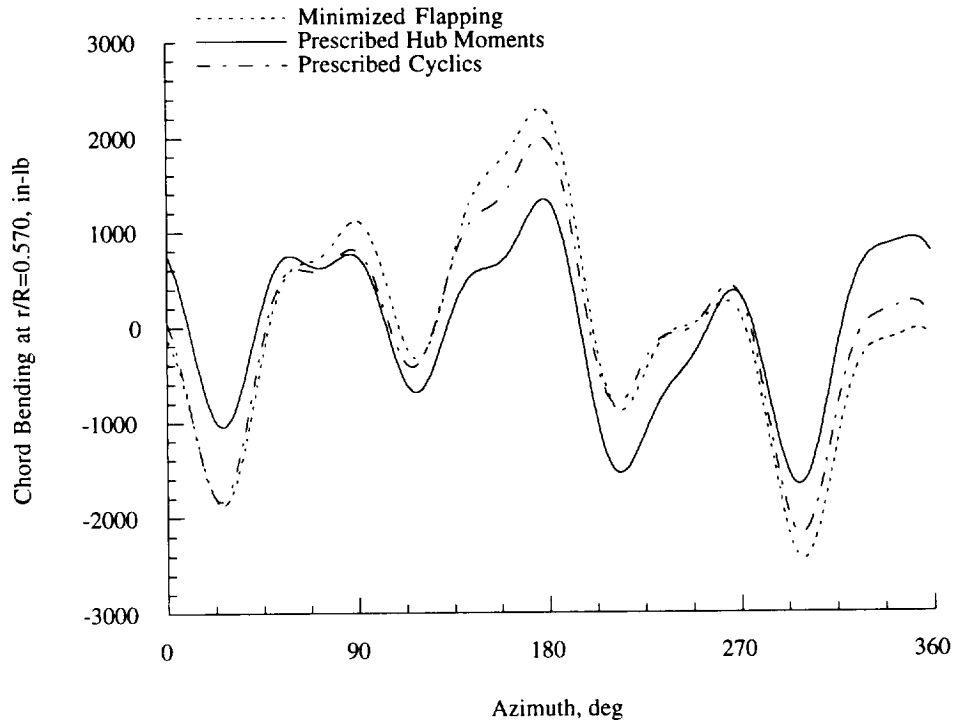


Figure 28(b). Comparison of oscillatory chord bending moments with three different wind tunnel trim procedures, chord bending moment at $r/R = 0.570$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

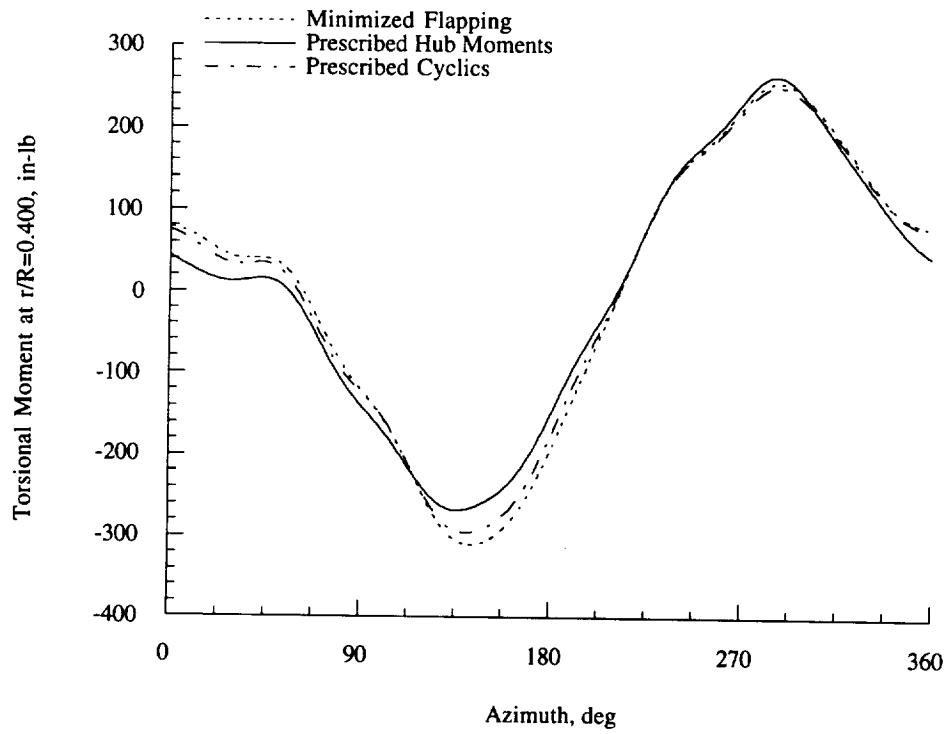


Figure 29. Comparison of oscillatory torsional moments with three different wind tunnel trim procedures, torsional moment at $r/R = 0.400$, $C_T/\sigma = 0.071$, $\mu = 0.197$, $\alpha = -4.8$ deg.

Appendix A—Run Logs

The test conditions that are documented in this report are identified in the following tables. Data points that have a check mark (✓) in the far right column are included in the subsequent appendices of this report. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPH	angle of rotor shaft from vertical, positive shaft tilt aft, deg
CTH/S	ratio of rotor thrust coefficient to solidity, rotor thrust/ $\rho S(\Omega R)^2$

Point	point number
RPM	rotor rotational rate, revolutions per minute
THETA	rotor collective, $r/R = 0.7$, deg
VKTS	tunnel velocity, V, knots
V/OR	advance ratio, μ
✓	indicates that data for this test condition are included in the subsequent appendices of this report

Run 12 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		-10.0	425		4.0	Hover-Overhead Doors Open
6	0.0		-10.0	425	0.01		Hover/Stability
7	0.0		-10.0	425	0.02		Hover/Stability
8	0.0		-10.0	425	0.03		Hover/Stability
9	0.0		-10.0	425	0.04		Hover/Stability
10	0.0		-10.0	425	0.05		Hover/Stability
11	0.0		-10.0	425	0.06		Hover/Stability
12	0.0		-10.0	425	0.07		Hover/Stability
13	0.0		-10.0	425	0.08		Hover/Stability
14	0.0		-10.0	425	0.09		Hover/Stability
15	0.0		-10.0	425	0.10		Hover/Stability
16	0.0		-10.0	425	0.11		Hover/Stability
17	0.0		-10.0	425	0.12		Hover
18	0.0		-10.0	425	0.13		Hover
19	0.0		0.0	425		4.0	Hover Reference
20	0.0		0.0	0		10.6	End ZERO
21	0.0		0.0	0		10.6	End CAL
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
32							
33							
34							
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49							
50							

Run 13 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		0.0	425	0.00		Hover-Overhead Doors Open
6	0.0		0.0	425	0.01		Hover
7	0.0		0.0	425	0.02		Hover
8	0.0		0.0	425	0.03		Hover
9	0.0		0.0	425	0.04		Hover
10	0.0		0.0	425	0.05		Hover
11	0.0		0.0	425	0.06		Hover
12	0.0		0.0	425	0.07		Hover
13	0.0		0.0	425	0.08		Hover
14	0.0		0.0	425	0.09		Hover
15	0.0		0.0	425	0.10		Hover
16	0.0		0.0	425	0.11		Hover
17	0.0		0.0	425	0.12		Hover
18	0.0		0.0	425	0.13		Hover
19	0.0		0.0	425		4.0	Hover Reference
20	0.0		0.0	0		10.6	End ZERO
21	0.0		0.0	0		10.6	End CAL
22							
23							
24							
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Run 14 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	0.0		-5.0	425	0.07		Hover
6	30.0		-5.0	425	0.07		Minimize Flapping/Stability
7	60.0		-5.0	425	0.07		Minimize Flapping/Stability
8	90.0		-5.0	425	0.07		Minimize Flapping/Stability
9	120.0		-5.0	425	0.07		Minimize Flapping/Stability
10	140.0		-5.0	425	0.07		Minimize Flapping
11	140.0		-5.0	425	0.02		Minimize Flapping
12	140.0		-5.0	425	0.04		Minimize Flapping
13	140.0		-5.0	425	0.06		Minimize Flapping
14	140.0		-5.0	425	0.07		Minimize Flapping
15	140.0		-5.0	425	0.08		Minimize Flapping
16	140.0		-5.0	425	0.10		Minimize Flapping
17	120.0		-5.0	425	0.02		Minimize Flapping
18	120.0		-5.0	425	0.04		Minimize Flapping
19	120.0		-5.0	425	0.06		Minimize Flapping
20	0.0		0.0	425		4.0	Hover Reference
21	0.0		0.0	0		10.6	End ZERO
22	0.0		0.0	0		10.6	End CAL
23							
24							
25							
26							
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Run 15 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		-5.0	425	0.07		Minimize Flapping
6	60.0		-5.0	425	0.07		Minimize Flapping
7	90.0		-5.0	425	0.07		Minimize Flapping
8	120.0		-5.0	425	0.07		Minimize Flapping
9	120.0		-5.0	425	0.08		Minimize Flapping/Stability
10	120.0		-5.0	425	0.10		Minimize Flapping
11	120.0		-5.0	425	0.11		Minimize Flapping
12	90.0		-5.0	425	0.02		Minimize Flapping
13	90.0		-5.0	425	0.04		Minimize Flapping
14	90.0		-5.0	425	0.06		Minimize Flapping
15	90.0		-5.0	425	0.07		Minimize Flapping
16	90.0		-5.0	425	0.08		Minimize Flapping
17	90.0		-5.0	425	0.10		Minimize Flapping
18	90.0		-5.0	425	0.12		Minimize Flapping
19	60.0		-5.0	425	0.02		Minimize Flapping
20	60.0		-5.0	425	0.04		Minimize Flapping
21	60.0		-5.0	425	0.06		Minimize Flapping
22	60.0		-5.0	425	0.07		Minimize Flapping
23	60.0		-5.0	425	0.08		Minimize Flapping
24	60.0		-5.0	425	0.10		Minimize Flapping
25	60.0		-5.0	425	0.12		Minimize Flapping
26	30.0		-5.0	425	0.02		Minimize Flapping
27	30.0		-5.0	425	0.04		Minimize Flapping
28	30.0		-5.0	425	0.06		Minimize Flapping
29	30.0		-5.0	425	0.07		Minimize Flapping
30	30.0		-5.0	425	0.08		Minimize Flapping
31	30.0		-5.0	425	0.10		Minimize Flapping
32	30.0		-5.0	425	0.12		Minimize Flapping
33	0.0		0.0	425		4.0	Hover Reference
34	0.0		0.0	0		10.6	End ZERO
35	0.0		0.0	0		10.6	End CAL
36							
37							
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Run 16 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments	
1	0.0		0.0	0		10.6	ZERO	
2	0.0		0.0	0		10.6	CAL	
3	0.0		0.0	0		10.6	Reference	
4	0.0		0.0	425		4.0	Hover Reference	
5	0.0		-10.0	425		4.0	Hover	
6	30.0		-10.0	425	0.02		Minimize Flapping	✓
7	30.0		-10.0	425	0.04		Minimize Flapping	✓
8	30.0		-10.0	425	0.06		Minimize Flapping	✓
9	30.0		-10.0	425	0.07		Minimize Flapping	✓
10	30.0		-10.0	425	0.08		Minimize Flapping	✓
11	30.0		-10.0	425	0.10		Minimize Flapping	✓
12	30.0		-10.0	425	0.12		Minimize Flapping	✓
13	60.0		-10.0	425	0.02		Minimize Flapping	✓
14	60.0		-10.0	425	0.04		Minimize Flapping	✓
15	60.0		-10.0	425	0.06		Minimize Flapping	✓
16	60.0		-10.0	425	0.07		Minimize Flapping	✓
17	60.0		-10.0	425	0.08		Minimize Flapping	✓
18	60.0		-10.0	425	0.10		Minimize Flapping	✓
19	60.0		-10.0	425	0.12		Minimize Flapping	✓
20	90.0		-10.0	425	0.02		Minimize Flapping	✓
21	90.0		-10.0	425	0.04		Minimize Flapping	✓
22	90.0		-10.0	425	0.06		Minimize Flapping	✓
23	90.0		-10.0	425	0.07		Minimize Flapping	✓
24	90.0		-10.0	425	0.08		Minimize Flapping	✓
25	90.0		-10.0	425	0.10		Minimize Flapping	✓
26	90.0		-10.0	425	0.12		Minimize Flapping	✓
27	120.0		-10.0	425	0.02		Minimize Flapping	✓
28	120.0		-10.0	425	0.04		Minimize Flapping	✓
29	120.0		-10.0	425	0.06		Minimize Flapping	✓
30	120.0		-10.0	425	0.07		Minimize Flapping	✓
31	120.0		-10.0	425	0.08		Minimize Flapping	✓
32	0.0		0.0	425		4.0	Hover Reference	
33	0.0		0.0	0		10.6	End ZERO	
34	0.0		0.0	0		10.6	End CAL	
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Run 17 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		0.0	425	0.02		Minimize Flapping
6	30.0		0.0	425	0.04		Minimize Flapping
7	30.0		0.0	425	0.06		Minimize Flapping
8	30.0		0.0	425	0.07		Minimize Flapping
9	30.0		0.0	425	0.08		Minimize Flapping
10	30.0		0.0	425	0.10		Minimize Flapping
11	30.0		0.0	425	0.12		Minimize Flapping
12	60.0		0.0	425	0.02		Minimize Flapping
13	60.0		0.0	425	0.04		Minimize Flapping
14	60.0		0.0	425	0.06		Minimize Flapping
15	60.0		0.0	425	0.07		Minimize Flapping
16	60.0		0.0	425	0.08		Minimize Flapping
17	60.0		0.0	425	0.10		Minimize Flapping
18	60.0		0.0	425	0.12		Minimize Flapping
19	90.0		0.0	425	0.02		Minimize Flapping
20	90.0		0.0	425	0.04		Minimize Flapping
21	90.0		0.0	425	0.06		Minimize Flapping
22	90.0		0.0	425	0.07		Minimize Flapping
23	90.0		0.0	425	0.08		Minimize Flapping
24	90.0		0.0	425	0.10		Minimize Flapping
25	90.0		0.0	425	0.12		Minimize Flapping
26	120.0		0.0	425	0.02		Minimize Flapping
27	120.0		0.0	425	0.04		Minimize Flapping
28	120.0		0.0	425	0.06		Minimize Flapping
29	120.0		0.0	425	0.07		Minimize Flapping
30	120.0		0.0	425	0.08		Minimize Flapping
31	120.0		0.0	425	0.10		Minimize Flapping
32	120.0		0.0	425	0.11		Minimize Flapping
33	0.0		0.0	425		4.0	Hover Reference
34	0.0		0.0	0		10.6	End ZERO
35	0.0		0.0	0		10.6	End CAL
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Run 18 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	0		10.6	ZERO
5	0.0		0.0	0		10.6	CAL
6	0.0		0.0	0		10.6	Reference
7	0.0		0.0	425		4.0	Hover Reference
8	30.0		-15.0	425	0.02		Minimize Flapping
9	30.0		-15.0	425	0.04		Minimize Flapping
10	30.0		-15.0	425	0.06		Minimize Flapping
11	30.0		-15.0	425	0.07		Minimize Flapping
12	30.0		-15.0	425	0.08		Minimize Flapping
13	30.0		-15.0	425	0.10		Minimize Flapping
14	30.0		-15.0	425	0.12		Minimize Flapping
15	60.0		-15.0	425	0.02		Minimize Flapping
16	60.0		-15.0	425	0.04		Minimize Flapping
17	60.0		-15.0	425	0.06		Minimize Flapping
18	60.0		-15.0	425	0.07		Minimize Flapping
19	60.0		-15.0	425	0.08		Minimize Flapping
20	60.0		-15.0	425	0.10		Minimize Flapping
21	60.0		-15.0	425	0.12		Minimize Flapping
22	90.0		-15.0	425	0.02		Minimize Flapping
23	0.0		0.0	0		10.6	End ZERO
24	0.0		0.0	0		10.6	End ZERO
25	0.0		0.0	0		10.6	End CAL
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27							
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Run 21 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	30.0		-5.0	425	0.02		Minimize Flapping
6	30.0		-5.0	425	0.04		Minimize Flapping
7	30.0		-5.0	425	0.06		Minimize Flapping
8	30.0		-5.0	425	0.07		Minimize Flapping
9	30.0		-5.0	425	0.08		Minimize Flapping
10	30.0		-5.0	425	0.10		Minimize Flapping
11	30.0		-5.0	425	0.12		Minimize Flapping
12	0.0		0.0	425		4.0	Hover Reference
13	0.0		0.0	0		10.6	End ZERO
14	0.0		0.0	0		10.6	End CAL
15							
16							
17							
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Run 22 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	60.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
6	60.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
7	60.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
8	60.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
9	60.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
10	60.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
11	90.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
12	90.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
13	90.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
14	90.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
15	90.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
16	105.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
17	75.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
18	45.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
19	20.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
20	10.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
21	0.0		0.0	425		4.0	Hover Reference
22	0.0		0.0	0		10.6	End ZERO
23	0.0		0.0	0		10.6	End CAL
24							
25							
26							
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Run 24 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
6	89.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
7	81.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
8	85.0		-3.3	424	0.07		Lng = 2.8, Lat = -1.5
9	85.0		-5.3	424	0.07		Lng = 2.8, Lat = -1.5
10	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
11	85.0		-4.3	424	0.07		Lng = 2.5, Lat = -1.5
12	85.0		-4.3	424	0.07		Lng = 3.1, Lat = -1.5
13	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -2.0
14	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.0
15	85.0		-4.3	434	0.07		Lng = 2.8, Lat = -1.5
16	85.0		-4.3	414	0.07		Lng = 2.8, Lat = -1.5
17	85.0		-4.3	424	0.07		Lng = 2.8, Lat = -1.5
18	75.0		0.0	425	0.02		Minimize Flapping
19	75.0		0.0	425	0.04		Minimize Flapping
20	75.0		0.0	425	0.06		Minimize Flapping
21	75.0		0.0	425	0.07		Minimize Flapping
22	75.0		0.0	425	0.08		Minimize Flapping
23	75.0		0.0	425	0.10		Minimize Flapping
24	0.0		0.0	0		10.6	End ZERO
25	0.0		0.0	0		10.6	End CAL
26							
27							
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Run 28 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments	
1	0.0		0.0	0		10.6	ZERO	
2	0.0		0.0	0		10.6	CAL	
3	0.0		0.0	0		10.6	Reference	
4	0.0		0.0	425		4.0	Hover Reference	
5	10.0		0.0	425	0.02		Minimize Flapping	✓
6	10.0		0.0	425	0.04		Minimize Flapping	✓
7	10.0		0.0	425	0.06		Minimize Flapping	✓
8	10.0		0.0	425	0.07		Minimize Flapping/Stability	✓
9	10.0		0.0	425	0.08		Minimize Flapping	✓
10	10.0		0.0	425	0.10		Minimize Flapping	✓
11	10.0		0.0	425	0.12		Minimize Flapping	✓
12	20.0		0.0	425	0.02		Minimize Flapping	✓
13	20.0		0.0	425	0.04		Minimize Flapping	✓
14	20.0		0.0	425	0.06		Minimize Flapping	✓
15	20.0		0.0	425	0.07		Minimize Flapping/Stability	✓
16	20.0		0.0	425	0.08		Minimize Flapping	✓
17	20.0		0.0	425	0.10		Minimize Flapping	✓
18	20.0		0.0	425	0.12		Minimize Flapping	✓
19	30.0		0.0	425	0.07		Minimize Flapping/Stability	✓
20	45.0		0.0	425	0.02		Minimize Flapping	✓
21	45.0		0.0	425	0.04		Minimize Flapping	✓
22	45.0		0.0	425	0.06		Minimize Flapping	✓
23	45.0		0.0	425	0.07		Minimize Flapping/Stability	✓
24	45.0		0.0	425	0.08		Minimize Flapping	✓
25	45.0		0.0	425	0.10		Minimize Flapping	✓
26	45.0		0.0	425	0.12		Minimize Flapping	✓
27	60.0		0.0	425	0.07		Minimize Flapping/Stability	✓
28	75.0		0.0	425	0.07		Minimize Flapping/Stability	✓
29	90.0		0.0	425	0.07		Minimize Flapping/Stability	✓
30	105.0		0.0	425	0.02		Minimize Flapping	✓
31	105.0		0.0	425	0.04		Minimize Flapping	✓
32	105.0		0.0	425	0.06		Minimize Flapping	✓
33	105.0		0.0	425	0.07		Minimize Flapping/Stability	✓
34	105.0		0.0	425	0.08		Minimize Flapping	✓
35	105.0		0.0	425	0.10		Minimize Flapping	✓
36	105.0		0.0	425	0.11		Minimize Flapping	✓
37	120.0		0.0	425	0.07		Minimize Flapping/Stability	
38	140.0		0.0	425	0.07		Minimize Flapping/Stability	✓
39	0.0		0.0	0		10.6	End ZERO	
40	0.0		0.0	0		10.6	End CAL	
41								
42								
43								
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48								
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Run 34 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	ZERO
4	0.0		0.0	0		10.6	CAL
5	0.0		0.0	0		10.6	Reference
6	0.0		0.0	425		4.0	Hover Reference
7	45.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
8	45.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
9	45.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
10	45.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
11	45.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
12	45.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
13	45.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
14	45.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
15	75.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
16	75.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
17	75.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
18	75.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
19	75.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
20	75.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
21	75.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
22	75.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
23	105.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
24	105.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
25	105.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
26	105.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
27	105.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
28	105.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
29	105.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
30	105.0		-5.0	425	0.11		Minimize Flapping/Stability ✓
31	20.0		-5.0	425	0.02		Minimize Flapping/Stability ✓
32	20.0		-5.0	425	0.04		Minimize Flapping/Stability ✓
33	20.0		-5.0	425	0.06		Minimize Flapping/Stability ✓
34	20.0		-5.0	425	0.07		Minimize Flapping/Stability ✓
35	20.0		-5.0	425	0.08		Minimize Flapping/Stability ✓
36	20.0		-5.0	425	0.09		Minimize Flapping/Stability ✓
37	20.0		-5.0	425	0.10		Minimize Flapping/Stability ✓
38	20.0		-5.0	425	0.12		Minimize Flapping/Stability ✓
39	0.0		0.0	425		4.0	Hover Reference
40	0.0		0.0	0		10.6	End ZERO
41	0.0		0.0	0		10.6	End CAL
42							
43							
44							
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Run 35 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments	
1	0.0		0.0	0		10.6	ZERO	
2	0.0		0.0	0		10.6	CAL	
3	0.0		0.0	0		10.6	Reference	
4	0.0		0.0	425		4.0	Hover Reference	
5	90.0		-7.5	425	0.02		Minimize Flapping	✓
6	90.0		-7.5	425	0.04		Minimize Flapping	✓
7	90.0		-7.5	425	0.06		Minimize Flapping	✓
8	90.0		-7.5	425	0.07		Minimize Flapping	✓
9	90.0		-7.5	425	0.08		Minimize Flapping	✓
10	90.0		-7.5	425	0.09		Minimize Flapping	✓
11	90.0		-7.5	425	0.10		Minimize Flapping	✓
12	90.0		-7.5	425	0.11		Minimize Flapping	✓
13	105.0		-7.5	425	0.02		Minimize Flapping	✓
14	105.0		-7.5	425	0.04		Minimize Flapping	✓
15	105.0		-7.5	425	0.06		Minimize Flapping	✓
16	105.0		-7.5	425	0.07		Minimize Flapping	✓
17	105.0		-7.5	425	0.08		Minimize Flapping	✓
18	105.0		-7.5	425	0.09		Minimize Flapping	✓
19	105.0		-7.5	425	0.10		Minimize Flapping	✓
20	105.0		-7.5	425	0.11		Minimize Flapping	✓
21	120.0		-7.5	425	0.02		Minimize Flapping	✓
22	120.0		-7.5	425	0.04		Minimize Flapping	✓
23	120.0		-7.5	425	0.06		Minimize Flapping	✓
24	120.0		-7.5	425	0.07		Minimize Flapping	✓
25	120.0		-7.5	425	0.08		Minimize Flapping	✓
26	120.0		-7.5	425	0.09		Minimize Flapping	✓
27	120.0		-7.5	425	0.10		Minimize Flapping	✓
28	140.0		-7.5	425	0.02		Minimize Flapping	✓
29	140.0		-7.5	425	0.04		Minimize Flapping	✓
30	140.0		-7.5	425	0.06		Minimize Flapping	✓
31	140.0		-7.5	425	0.07		Minimize Flapping	✓
32	75.0		-7.5	425	0.02		Minimize Flapping	✓
33	75.0		-7.5	425	0.04		Minimize Flapping	✓
34	75.0		-7.5	425	0.06		Minimize Flapping	✓
35	0.0		0.0	425		4.0	Hover Reference	
36	0.0		0.0	0		10.6	End ZERO	
37	0.0		0.0	0		10.6	End CAL	
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Run 39 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	106.0	0.250	-7.3	424			T=4964, P=-30, R=-833
6	106.0	0.250	-6.7	424			T=4964, P=-1380, R=-833
7	76.0	0.180	-2.1	424	0.06		VDESCNT=413, MTIP=0.64
8	76.0	0.180	0.8	424	0.06		VDESCNT=807, MTIP=0.64
9	76.0	0.180	0.8	424	0.06		VDESCNT=807, MTIP=0.64
10	106.0	0.249	-6.9	424	0.06		VDESCNT=551, MTIP=0.64
11	106.0	0.249	-6.9	424	0.06		VDESCNT=551, MTIP=0.64
12	140.0		-7.5	424	0.07		Minimize Flapping
13	140.0		-7.5	425	0.08		Minimize Flapping
14	140.0		-7.5	425	0.09		Minimize Flapping
15	0.0		0.0	425		4.0	Hover Reference
16	0.0		0.0	0		10.6	End ZERO
17	0.0		0.0	0		10.6	End CAL
18							
19							
20							
21							
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Run 40 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments	
1	0.0		0.0	0		10.6	ZERO	
2	0.0		0.0	0		10.6	CAL	
3	0.0		0.0	0		10.6	Reference	
4	0.0		0.0	425		4.0	Hover Reference	
5	30.0		-7.5	425	0.02		Minimize Flapping	✓
6	30.0		-7.5	425	0.04		Minimize Flapping	✓
7	30.0		-7.5	425	0.06		Minimize Flapping	✓
8	30.0		-7.5	425	0.07		Minimize Flapping	✓
9	30.0		-7.5	425	0.08		Minimize Flapping	✓
10	30.0		-7.5	425	0.09		Minimize Flapping	✓
11	30.0		-7.5	425	0.10		Minimize Flapping	✓
12	30.0		-7.5	425	0.12		Minimize Flapping	✓
13	45.0		-7.5	425	0.02		Minimize Flapping	✓
14	45.0		-7.5	425	0.04		Minimize Flapping	✓
15	45.0		-7.5	425	0.06		Minimize Flapping	✓
16	45.0		-7.5	425	0.07		Minimize Flapping	✓
17	45.0		-7.5	425	0.08		Minimize Flapping	✓
18	45.0		-7.5	425	0.09		Minimize Flapping	✓
19	45.0		-7.5	425	0.10		Minimize Flapping	✓
20	45.0		-7.5	425	0.12		Minimize Flapping	✓
21	60.0		-7.5	425	0.02		Minimize Flapping	✓
22	60.0		-7.5	425	0.04		Minimize Flapping	✓
23	60.0		-7.5	425	0.06		Minimize Flapping	✓
24	60.0		-7.5	425	0.07		Minimize Flapping	✓
25	60.0		-7.5	425	0.08		Minimize Flapping	✓
26	60.0		-7.5	425	0.09		Minimize Flapping	✓
27	60.0		-7.5	425	0.10		Minimize Flapping	✓
28	60.0		-7.5	425	0.12		Minimize Flapping	✓
29	75.0		-7.5	425	0.07		Minimize Flapping	✓
30	75.0		-7.5	425	0.08		Minimize Flapping	✓
31	75.0		-7.5	425	0.09		Minimize Flapping	✓
32	75.0		-7.5	425	0.10		Minimize Flapping	✓
33	75.0		-7.5	425	0.12		Minimize Flapping	✓
34	150.0		-5.0	425	0.04		Minimize Flapping	✓
35	150.0		-5.0	425	0.06		Minimize Flapping	✓
36	150.0		-5.0	425	0.07		Minimize Flapping	✓
37	150.0		-5.0	425	0.08		Minimize Flapping	✓
38	160.0		-5.0	425	0.04		Minimize Flapping	✓
39	160.0		-5.0	425	0.06		Minimize Flapping	✓
40	160.0		-5.0	425	0.07		Minimize Flapping	✓
41	160.0		-5.0	425	0.08		Minimize Flapping	✓
42	170.0		-5.0	425	0.04		Minimize Flapping	✓
43	170.0		-5.0	425	0.06		Minimize Flapping	✓
44	0.0		0.0	425		6.6	Hover Reference	
45	0.0		0.0	0		10.6	End ZERO	
46	0.0		0.0	0		10.6	End CAL	
47								
48								
49								
50								

Run 41 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0		0.0	0		10.6	ZERO
2	0.0		0.0	0		10.6	CAL
3	0.0		0.0	0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	106.0	0.250	-7.1	424			T=4854, Lng=4.1, Lat=-0.9
6	106.0	0.250	-7.1	424			T=4854, P=-1490, R=-860
7	106.0	0.250	-7.1	424			T=4854, P=0, R=-860
8	106.0	0.250	-7.1	424			T=4854, P=1490, R=-860
9	64.0	0.150	-3.3	424			T=4860, Lng=1.6, Lat=-1.9
10	64.0	0.150	-3.3	424			T=4860, P=-1694, R=-454
11	64.0	0.150	-3.3	424			T=4860, P=0, R=-454
12	64.0	0.150	-3.3	424			T=4860, P=1694, R=-454
13	75.0		-10.0	425	0.02		Minimize Flapping
14	75.0		-10.0	425	0.04		Minimize Flapping
15	75.0		-10.0	425	0.06		Minimize Flapping
16	75.0		-10.0	425	0.07		Minimize Flapping
17	75.0		-10.0	425	0.08		Minimize Flapping
18	75.0		-10.0	425	0.10		Minimize Flapping
19	120.0		-10.0	425	0.12		Minimize Flapping
20	120.0		-10.0	425	0.07		Minimize Flapping
21	120.0		-10.0	425	0.08		Minimize Flapping
22	120.0		-10.0	425	0.10		Minimize Flapping
23	120.0		-10.0	425	0.11		Minimize Flapping
24	140.0		-10.0	425	0.02		Minimize Flapping
25	140.0		-10.0	425	0.04		Minimize Flapping
26	140.0		-10.0	425	0.06		Minimize Flapping
27	140.0		-10.0	425	0.07		Minimize Flapping
28	140.0		-10.0	425	0.08		Minimize Flapping
29	140.0		-10.0	425	0.09		Minimize Flapping
30	20.0		-7.5	425	0.02		Minimize Flapping
31	20.0		-7.5	425	0.04		Minimize Flapping
32	20.0		-7.5	425	0.06		Minimize Flapping
33	20.0		-7.5	425	0.07		Minimize Flapping
34	20.0		-7.5	425	0.08		Minimize Flapping
35	20.0		-7.5	425	0.10		Minimize Flapping
36	20.0		-7.5	425	0.12		Minimize Flapping
37	10.0		-7.5	425	0.02		Minimize Flapping
38	10.0		-7.5	425	0.04		Minimize Flapping
39	10.0		-7.5	425	0.06		Minimize Flapping
40	10.0		-7.5	425	0.07		Minimize Flapping
41	10.0		-7.5	425	0.08		Minimize Flapping
42	10.0		-7.5	425	0.10		Minimize Flapping
43	10.0		-7.5	425	0.12		Minimize Flapping
44	0.0		0.0	425		4.0	Hover Reference
45	0.0		0.0	0		10.6	End ZERO
46	0.0		0.0	0		10.6	End CAL
47							
48							
49							
50							

Run 43 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0			0		10.6	ZERO
2	0.0			0		10.6	CAL
3	0.0			0		10.6	Reference
4	0.0		0.0	425		4.0	Hover Reference
5	42.0	0.100	-2.5	425			T=4910, Lng=1.3, Lat=-2.6 ✓
6	42.0	0.100	-2.5	425			T=4910, P=-1300, R=-350 ✓
7	42.0	0.100	-2.5	425			T=4910, P=1300, R=-350 ✓
8	63.5	0.150	-3.3	424			T=4890, Lng=1.6, Lat=-1.9 ✓
9	63.5	0.150	-3.3	424			T=4890, P=-1700, R=-456 ✓
10	63.5	0.150	-3.3	424			T=4890, P=1700, R=-456 ✓
11	85.0	0.200	-4.8	423			T=4890, Lng=2.6, Lat=-1.3 ✓
12	85.0	0.200	-4.8	423			T=4890, P=-1690, R=-613 ✓
13	85.0	0.200	-4.8	423			T=4890, P=1690, R=-613 ✓
14	106.5	0.250	-7.1	425			T=4875, Lng=4.1, Lat=-0.9 ✓
15	106.5	0.250	-7.1	425			T=4875, P=-1500, R=-864 ✓
16	106.5	0.250	-7.1	425			T=4875, P=1500, R=-864 ✓
17	131.1	0.310	-9.6	423			T=4882, Lng=6.3, Lat=-0.9 ✓
18	0.0		0.0	0		10.6	End ZERO- Bad Point
19	0.0		0.0	0		10.6	End ZERO
20	0.0		0.0	0		10.6	End CAL
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
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49							
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Run 46 Log

Point	VKTS	VOR	ALPH	RPM	CTH/S	THETA	Comments
1	0.0			0		10.6	ZERO
2	0.0			0		10.6	CAL
3	0.0			0		10.6	Reference
4	0.0			0		10.6	New ZERO
5	0.0			0		10.6	New CAL
6	0.0			0		10.6	New Reference
7	0.0		0.0	425		4.0	Hover Reference
8	30.0		-5.0	425	0.07		Minimize Flapping
9	60.0		-5.0	425	0.07		Minimize Flapping
10	90.0		-5.0	425	0.07		Minimize Flapping
11	120.0		-5.0	425	0.07		Minimize Flapping
12	140.0		-5.0	425	0.07		Minimize Flapping
13	132.0	0.314	-9.6	423			T=4950, Minimize Flapping ✓
14	132.0	0.314	-9.6	423			T=4950, P=1216, R=-1250 ✓
15	132.0	0.314	-9.6	423			T=4950, Lng=6.3, Lat=-0.9 ✓
16	108.0	0.254	-7.1	425			T=4907, Minimize Flapping ✓
17	108.0	0.254	-7.1	425			T=4907, P=1543, R=-849 ✓
18	108.0	0.254	-7.1	425			T=4907, Lng=4.1, Lat=-0.9 ✓
19	83.0	0.197	-4.8	423			T=4919, Minimize Flapping ✓
20	83.0	0.197	-4.8	423			T=4919, P=1697, R=-593 ✓
21	83.0	0.197	-4.8	423			T=4919, Lng=2.6, Lat=-1.3 ✓
22	61.5	0.145	-3.3	424			T=4917, Minimize Flapping ✓
23	61.5	0.145	-3.3	424			T=4917, P=1728, R=-433 ✓
24	61.5	0.145	-3.3	424			T=4917, Lng=1.6, Lat=-1.9 ✓
25	40.9	0.096	-2.5	425			T=4912, Minimize Flapping ✓
26	40.9	0.096	-2.5	425			T=4912, P=1300, R=-351 ✓
27	40.9	0.096	-2.5	425			T=4912, Lng=1.3, Lat=-2.6 ✓
28	44.1	0.104	-1.7	425			T=6312, Minimize Flapping ✓
29	44.1	0.104	-1.7	425			T=6312, P=1543, R=-553 ✓
30	44.1	0.104	-1.7	425			T=6312, Lng=1.3, Lat=-3.3 ✓
31	56.5	0.133	-2.5	425			T=6256, Minimize Flapping ✓
32	56.5	0.133	-2.5	425			T=6256, P=2127, R=-464 ✓
33	56.5	0.133	-2.5	425			T=6256, Lng=2.1, Lat=-2.5 ✓
34	82.6	0.194	-3.9	425			T=6242, Minimize Flapping ✓
35	82.6	0.194	-3.9	425			T=6242, P=2362, R=-591 ✓
36	82.6	0.194	-3.9	425			T=6242, Lng=3.4, Lat=-1.8 ✓
37	0.0		0.0	425		4.0	End Hover Reference
38	0.0		0.0	0		10.6	End ZERO
39	0.0		0.0	0		10.6	End CAL
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Appendix B—Hover Static Data

Performance data for hover test conditions are presented in the following tables. Data are grouped in terms of thrust sweeps for shaft angles-of-attack α of 0 deg and -10 deg. The rotor control positions presented in these tables are based on the fixed-system actuator positions. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, ALPHCP = (ALPHA - B1S), deg
A1S, B1S	coefficients in the representation of rotor blade cyclic pitch (fixed-system measurement), -A1S cos(ϕ - 10 deg) -B1S sin(ϕ - 10 deg), deg
c	rotor blade chord length, ft
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$
COLL	rotor collective (fixed-system measurement), deg

CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$
CS	speed of sound, ft/sec
CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$
CXRHS/S	ratio of rotor propulsive force coefficient to solidity, shaft axis, -drag/ $\rho S(\Omega R)^2$
CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$
FMERIT	rotor figure of merit, $\frac{C_T^{3/2}}{C_P \sqrt{2}}$
MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
MTIP	rotor rotational tip Mach number, $\Omega R/CS$
POINT	point number
R	rotor radius, ft
RHO	air density, ρ , slug/ft ³
RUN	run number
S	rotor reference area, $4cR$, ft ²
V	tunnel velocity, ft/sec
VKTS	tunnel velocity, V, knots
VTIP	rotor tip speed, ft/sec
V/OR	advance ratio, μ , $V/\Omega R$
σ	rotor solidity, $S/\pi R^2$
ϕ	rotor blade azimuth angle measured from downwind position in direction of rotation, deg
Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	FMERIT BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CPS
12 5	1.7 0.004	717.1 0.002404	-10 -10	3.61 -0.01	0.1294 -0.04	0.6497 0.6471	0.008753 0.00891	0.001673 0.000128	0.000223 0.000441	-9.10E-05 -2.20E-05	0.001274 0.001216
12 6	1.7 0.004	716.6 0.002404	-10 -10	3.81 -0.01	0.1551 -0.05	0.6492 0.6466	0.010079 0.010259	0.001919 0.000139	0.00031 0.000536	-8.60E-05 8.90E-05	0.001327 0.001253
12 7	3 0.007	717.6 0.002404	-10 -9.9	5.13 -0.02	0.3356 -0.05	0.6521 0.6476	0.020175 0.020515	0.00372 0.00016	0.00052 0.000817	1.50E-05 -0.000344	0.001755 0.001638
12 8	2.4 0.0057	719 0.002404	-10 -10	6.39 -0.01	0.4392 -0.04	0.6525 0.6488	0.028736 0.029217	0.005285 0.000215	0.000185 0.000563	6.40E-05 -0.00035	0.002193 0.002127
12 9	2.7 0.0064	717 0.002405	-10 -10	7.55 -0.02	0.536 -0.04	0.6512 0.6471	0.039383 0.040033	0.007189 0.000241	0.000309 0.000807	0.000192 -0.000464	0.002893 0.002796
12 10	4.2 0.0098	719.5 0.002404	-10 -9.9	8.45 -0.02	0.5828 -0.06	0.6557 0.6493	0.048061 0.048861	0.008813 0.000333	-0.000328 0.000278	0.000201 -0.000583	0.003463 0.003467
12 11	2.7 0.0064	716.5 0.002404	-10 -10	9.56 -0.02	0.6523 -0.05	0.6507 0.6466	0.061271 0.062266	0.011089 0.000281	-0.000239 0.000543	0.000346 -7.80E-05	0.004483 0.004456
12 12	2.7 0.0064	717.4 0.002403	-10 -9.9	10.5 -0.02	0.6566 -0.05	0.6515 0.6474	0.069333 0.070469	0.012604 0.000373	-0.001182 -0.00026	0.000109 -0.000184	0.005204 0.00533
12 13	5.7 0.0133	717.7 0.002403	-10 -9.9	11.4 -0.02	0.6673 -0.05	0.6563 0.6477	0.078264 0.079549	0.01425 0.000443	-0.001152 -6.10E-05	0.000183 -0.000356	0.006184 0.00629
12 14	7.6 0.018	715.5 0.002403	-10 -10	12.43 -0.02	0.6859 -0.04	0.6573 0.6456	0.091369 0.092887	0.016732 0.000612	-0.001392 -5.20E-05	0.000179 -0.000542	0.007595 0.007722
12 15	8.9 0.0209	718.4 0.002403	-10 -10	13.13 -0.02	0.6881 -0.05	0.6618 0.6483	0.09957 0.101143	0.017768 0.000207	-0.001346 0.000175	0.000353 0.000266	0.008643 0.008746

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	FMERIT BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CPS
12	7.3	716	-10	13.87	0.6921	0.657	0.109302	0.019472	-0.001522	0.000373	0.009885
16	0.0171	0.002402	-10	-0.02	-0.04	0.646	0.111023	0.000196	0.000218	0.000182	0.009999
12	10.9	716.9	-10	14.74	0.6723	0.6633	0.11906	0.021432	-0.002574	-0.000144	0.011436
17	0.0258	0.002402	-10	-0.02	-0.04	0.6467	0.120973	0.000432	-0.000549	-0.000123	0.011709
12	6.2	717.5	-10	15.5	0.6692	0.6565	0.129104	0.022487	-0.002938	-0.000392	0.012949
18	0.0145	0.002401	-10	-0.04	-0.04	0.6472	0.131047	-0.000273	-0.000645	0.000554	0.013262
13	1.7	718.6	0	3.64	0.102	0.6533	0.008377	0.000101	0.000312	-7.80E-05	0.001406
4	0.004	0.002426	0.1	0.03	-0.06	0.6507	0.008377	0.000101	0.000312	-0.000142	0.001406
13	2.7	719.3	0	1.95	0	0.6555	-8.60E-05	6.30E-05	0.000169	-0.000125	0.001233
5	0.0063	0.002426	0	0.04	-0.05	0.6514	-8.60E-05	6.30E-05	0.000169	9.60E-05	0.001233
13	1.7	718.7	0	3.86	0.1332	0.6534	0.010278	7.50E-05	0.000388	-7.50E-05	0.001464
6	0.004	0.002426	0.1	0.04	-0.05	0.6508	0.010278	7.50E-05	0.000388	-0.000221	0.001464
13	2.9	717	0	5.12	0.2809	0.6538	0.019558	9.80E-05	0.000682	-1.0E-06	0.001822
7	0.0069	0.002426	0	0.03	-0.05	0.6493	0.019558	9.80E-05	0.000682	-0.000233	0.001822
13	2.9	715.3	0	6.37	0.4195	0.6523	0.03042	0.000125	0.000586	6.90E-05	0.002366
8	0.007	0.002426	0.1	0.03	-0.06	0.6478	0.03042	0.000125	0.000586	-0.000159	0.002366
13	3.4	716.8	0	7.46	0.5065	0.6543	0.039756	0.000209	0.00043	0.000118	0.002928
9	0.008	0.002426	0.1	0.03	-0.05	0.6491	0.039756	0.000209	0.00043	-0.000405	0.002928
13	4.8	716.2	0	8.45	0.5695	0.6559	0.049884	0.000216	0.000598	0.000241	0.00366
10	0.0113	0.002426	0.1	0.03	-0.05	0.6485	0.049884	0.000216	0.000598	-0.000284	0.00366
13	5.9	717.6	0	9.51	0.6151	0.6588	0.060714	0.000215	0.000596	0.00031	0.00455
11	0.0139	0.002426	0	0.03	-0.04	0.6498	0.060714	0.000215	0.000596	1.0E-05	0.00455

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	FMERIT BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
13	7	717.3	0	10.36	0.6485	0.6602	0.070919	0.000217	0.00091	0.000511	0.005449
12	0.0165	0.002427	0.1	0.03	-0.05	0.6495	0.070919	0.000217	0.00091	3.70E-05	0.005449
13	7	715	0	11.28	0.6582	0.6581	0.079393	0.000375	0.001195	0.000713	0.006359
13	0.0166	0.002427	0.1	0.02	-0.06	0.6473	0.079393	0.000375	0.001195	-0.00017	0.006359
13	7.2	718.2	0	12.12	0.6753	0.6613	0.089325	0.000462	0.000507	0.000475	0.007396
14	0.017	0.002426	0.1	0.02	-0.14	0.6503	0.089325	0.000462	0.000507	-0.000346	0.007396
13	6.8	716.1	0	13.01	0.6864	0.6587	0.100924	0.000646	0.000873	0.000716	0.008739
15	0.016	0.002425	0.1	0.02	-0.13	0.6483	0.100924	0.000646	0.000873	-0.000679	0.008739
13	8.5	719.2	0	13.8	0.676	0.6641	0.108106	0.000188	0.000363	0.00044	0.009838
16	0.02	0.002425	0.2	-0.02	-0.2	0.6511	0.108106	0.000188	0.000363	7.70E-05	0.009838
13	8.7	718.9	0	14.57	0.6817	0.664	0.11972	0.000145	0.00104	0.000919	0.011368
17	0.0204	0.002425	0.2	-0.02	-0.2	0.6508	0.11972	0.000145	0.00104	0.000137	0.011368
13	9.9	718.7	0	15.37	0.6648	0.6657	0.126795	0.000776	0.000921	0.000827	0.012705
18	0.0233	0.002425	0.2	-0.01	-0.19	0.6505	0.126795	0.000776	0.000921	-0.00092	0.012705
13	2.7	717.4	0	3.64	0.1159	0.6533	0.009049	0.000333	-1.10E-05	-5.30E-05	0.001389
19	0.0063	0.002424	0.2	0	-0.21	0.6492	0.009049	0.000333	-1.10E-05	0.000259	0.001389

Appendix C—Forward Flight Static Data

Performance data for forward flight test conditions with minimized flapping trim are presented in the following tables. Data are grouped in terms of shaft angles-of-attack α and increasing tunnel velocity. The rotor control positions presented in these tables are based on the fixed-system actuator positions. The test logs presented in Appendix A should be consulted for identification of test conditions presented in these tables. No wall corrections have been applied to these data. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg	COLL	rotor collective (fixed-system measurement), deg
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, $ALPHCP = (ALPHA - B1S)$, deg	CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$
A1S, B1S	coefficients in the representation of rotor blade cyclic pitch (fixed-system measurement), –A1S $\cos(\varphi - 10 \text{ deg})$ –B1S $\sin(\varphi - 10 \text{ deg})$, deg	CS	speed of sound, ft/sec
c	rotor blade chord length, ft	CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, –drag/ $\rho S(\Omega R)^2$
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$	CXRHS/S	ratio of rotor drag propulsive coefficient to solidity, shaft axis, –drag/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$	CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$	L/DR	rotor lift to drag ratio
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$	MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$	MTIP	rotor rotational tip Mach number, $\Omega R/CS$
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$	POINT	point number
		R	rotor radius, ft
		RHO	air density, ρ , slug/ft ³
		RUN	run number
		S	rotor reference area, $4cR$, ft ²
		V	tunnel velocity, ft/sec
		VKTS	tunnel velocity, V, knots
		VTIP	rotor tip speed, ft/sec
		V/OR	advance ratio, μ , $V/\Omega R$
		σ	rotor solidity, $S/\pi R^2$
		φ	rotor blade azimuth angle measured from downwind position in direction of rotation, deg
		Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
28 5	10.2 0.0239	718.2 0.002369	0 -0.6	4.42 -1.72	0.3 0.58	0.663 0.6475	0.021363 0.021363	-0.000267 -0.000267	0.000182 0.000182	-0.000231 -0.000132	0.001633 0.001633
28 6	9.9 0.0234	715.1 0.002367	0 -0.4	6.62 -1.48	0.4 0.43	0.6595 0.6444	0.039524 0.039524	-0.000405 -0.000405	-5.20E-05 -5.20E-05	-0.00041 -4.0E-05	0.002484 0.002484
28 7	9.6 0.0226	717.8 0.002358	0 -0.5	9.25 -1.45	0.3 0.47	0.6602 0.6457	0.061167 0.061167	-0.000568 -0.000568	-0.000187 -0.000187	-0.00065 0.000214	0.004311 0.004311
28 8	9.5 0.0223	717.7 0.002352	0 -0.5	10.22 -1.46	0.3 0.53	0.6592 0.6449	0.070277 0.070277	-0.00058 -0.00058	-0.000268 -0.000268	-0.000749 0.000156	0.005182 0.005182
28 9	9.8 0.023	717 0.002347	0 -0.6	10.96 -1.46	0.3 0.61	0.6584 0.6436	0.078944 0.078944	-0.000595 -0.000595	-0.000219 -0.000219	-0.000766 0.000321	0.006031 0.006031
28 10	9.3 0.0219	718.1 0.002345	0 -0.9	12.98 -1.36	0.3 0.87	0.6585 0.6444	0.098631 0.098631	-0.000487 -0.000487	-0.00012 -0.00012	-0.000895 0.000221	0.008617 0.008617
28 11	9.3 0.0219	717.3 0.002343	0 -1	14.78 -0.89	0.2 0.99	0.6576 0.6435	0.119976 0.119976	-0.000274 -0.000274	-0.000109 -0.000109	-0.000565 -0.000386	0.011648 0.011648
22 20	9.5 0.0223	717.4 0.002343	-5 -5.7	10.26 -1.45	0.3 0.66	0.6566 0.6423	0.069643 0.069867	0.005606 -0.000485	-0.00037 9.20E-05	-0.001163 -0.000346	0.00529 0.005302
41 37	10.1 0.0237	717.8 0.002344	-7.5 -7.8	4.81 -1.28	0.3 0.29	0.653 0.6378	0.020718 0.020821	0.002147 -0.000575	-8.60E-05 0.000153	-0.0004 0.000114	0.001826 0.001822
41 38	10.2 0.0241	716.5 0.002345	-7.5 -7.8	6.98 -1.28	0.4 0.29	0.652 0.6367	0.04012 0.040384	0.004657 -0.00062	-0.000241 0.000119	-0.000549 -0.000105	0.002735 0.002743
41 39	10.1 0.0237	718.2 0.002344	-7.5 -7.8	9.35 -1.34	0.3 0.3	0.6532 0.6381	0.060172 0.060584	0.007099 -0.000816	-0.000638 -6.0E-05	-0.000727 0.000255	0.004388 0.004434

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/D BIS	MAT MTIP	CLRH/S CLRH/S	CXRH/S CXRH/S	CMXH/S CMXH/S	CYRH/S CMYH/S	CMZH/S CPS
41	10.2	717.8	-7.5	10.57	0.3	0.653	0.071213	0.008923	-0.000175	-0.000525	0.005543
40	0.0241	0.002344	-8.1	-1.25	0.62	0.6377	0.071768	-0.000449	0.00055	-0.000395	0.005519
41	10.2	715.3	-7.5	11.44	0.3	0.6508	0.080701	0.009774	-0.000831	-0.000793	0.006418
41	0.0242	0.002344	-8.2	-1.25	0.65	0.6354	0.081286	-0.000844	1.40E-05	0.000294	0.006472
41	9.9	718.3	-7.5	13.18	0.3	0.6531	0.098395	0.01263	-0.001293	-0.001031	0.008677
42	0.0234	0.002345	-8.4	-1.35	0.89	0.6382	0.099202	-0.000321	-0.000149	-0.000669	0.008772
41	10.5	715.7	-7.5	15	0.3	0.6516	0.120231	0.01555	-0.001463	-0.000865	0.011703
43	0.0248	0.002344	-8.8	-1.05	1.34	0.6358	0.121232	-0.000276	7.70E-05	-0.000382	0.011794
28	19.5	718.5	0	3.65	0.6	0.6735	0.019029	-0.000595	-9.70E-05	-0.000264	0.001419
12	0.0457	0.002338	-0.4	-1.84	0.41	0.644	0.019029	-0.000595	-9.70E-05	-7.30E-05	0.001419
28	19.6	718.3	0	6.02	0.8	0.6734	0.039694	-0.000637	0.000103	-0.000687	0.002146
13	0.046	0.002337	-0.9	-2.4	0.86	0.6438	0.039694	-0.000637	0.000103	-0.000155	0.002146
28	19.6	718.1	0	7.93	0.8	0.6732	0.059073	-0.000804	-5.80E-05	-0.001228	0.003195
14	0.0462	0.002337	-1	-2.59	1.02	0.6435	0.059073	-0.000804	-5.80E-05	-2.70E-05	0.003195
28	19.4	717.6	0	8.76	0.8	0.6723	0.068156	-0.000726	8.60E-05	-0.001349	0.003783
15	0.0456	0.002336	-1.2	-2.59	1.19	0.6429	0.068156	-0.000726	8.60E-05	-0.000214	0.003783
28	19.3	718.1	0	9.72	0.8	0.6724	0.078511	-0.00083	8.50E-05	-0.00162	0.004551
16	0.0454	0.002335	-1.3	-2.63	1.32	0.6432	0.078511	-0.00083	8.50E-05	-0.000144	0.004551
28	19.3	718.6	0	11.52	0.7	0.6728	0.098636	-0.000895	0.000117	-0.002198	0.00639
17	0.0454	0.002334	-1.6	-2.72	1.62	0.6436	0.098636	-0.000895	0.000117	-0.000288	0.00639
28	19.2	718.2	0	13.15	0.6	0.6722	0.117582	-0.000938	7.40E-05	-0.002571	0.008951
18	0.0452	0.002333	-2.1	-2.64	2.05	0.6431	0.117582	-0.000938	7.40E-05	-0.000322	0.008951

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
22 19	19.4 0.0455	717.7 0.002344	-5 -6	9.18 -2.35	0.8 1.04	0.672 0.6427	0.068893 0.069038	0.004665 -0.001357	-0.000524 -0.000156	-0.002016 -0.000193	0.00421 0.00424
34 31	19.7 0.0463	717.4 0.002369	-5 -5.2	4.31 -1.78	0.5 0.2	0.6704 0.6407	0.019386 0.019343	0.000357 -0.001334	-0.000328 -0.000183	-0.000794 0.000227	0.001642 0.001665
34 32	19.3 0.0454	716.4 0.002367	-5 -5.5	6.45 -2.14	0.8 0.5	0.6685 0.6395	0.038959 0.038985	0.001999 -0.001404	-0.000131 8.10E-05	-0.0011 -0.000142	0.002432 0.002434
34 33	19.4 0.0457	718.6 0.002366	-5 -5.7	8.39 -2.24	0.8 0.75	0.6706 0.6413	0.058859 0.058952	0.003639 -0.001504	-0.00028 2.70E-05	-0.001405 -0.000159	0.003509 0.00352
34 34	19.4 0.0457	715.8 0.002366	-5 -5.9	9.28 -2.24	0.8 0.9	0.6679 0.6388	0.069431 0.069559	0.004495 -0.001574	-0.000415 -4.40E-05	-0.001612 -0.000113	0.004244 0.004264
34 35	19.7 0.0462	718.9 0.002365	-5 -6.1	10.14 -2.24	0.8 1.06	0.6711 0.6415	0.079064 0.079226	0.005313 -0.001598	-0.000365 7.50E-05	-0.001745 -0.000157	0.005026 0.005038
34 36	19.3 0.0454	716.4 0.002365	-5 -6.1	10.94 -2.24	0.7 1.12	0.6682 0.6391	0.088603 0.088785	0.00596 -0.001784	-0.00034 0.000172	-0.001757 -1.80E-05	0.005864 0.005871
34 37	19.6 0.0462	716.8 0.002364	-5 -6.3	11.75 -2.35	0.7 1.27	0.669 0.6394	0.09876 0.098978	0.006814 -0.00182	-0.000528 7.20E-05	-0.002044 -9.80E-05	0.006869 0.006889
34 38	19.2 0.0451	718.6 0.002364	-5 -6.5	13.53 -2.46	0.6 1.49	0.6699 0.641	0.119086 0.119375	0.008521 -0.00189	-0.000862 -2.0E-05	-0.002481 -0.000244	0.009621 0.00966
41 30	19.3 0.0453	718.5 0.002345	-7.5 -8.1	4.5 -1.69	0.6 0.56	0.6675 0.6386	0.020479 0.020506	0.00155 -0.001136	-2.0E-06 0.000224	-0.000772 -0.000561	0.001732 0.001718
41 31	19.4 0.0457	714.9 0.002344	-7.5 -8.1	6.53 -1.82	0.8 0.57	0.6643 0.6352	0.038548 0.03872	0.003843 -0.001222	7.0E-06 0.000333	-0.000966 -0.000375	0.002492 0.00247

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CPS
41	19.7	715.4	-7.5	8.44	0.8	0.6652	0.058773	0.006379	-0.000296	-0.001351	0.003614
32	0.0465	0.002344	-8.3	-1.98	0.76	0.6356	0.059103	-0.001347	0.000178	-0.000197	0.003621
41	19.8	718	-7.5	9.39	0.8	0.6677	0.068828	0.007663	-0.000273	-0.001411	0.00436
33	0.0465	0.002345	-8.4	-1.99	0.89	0.638	0.069239	-0.001386	0.000299	-0.000193	0.004358
41	19.8	716.2	-7.5	10.21	0.8	0.6661	0.078435	0.00894	-0.000224	-0.001508	0.005114
34	0.0466	0.002345	-8.5	-1.98	1.03	0.6364	0.078931	-0.001375	0.000446	-0.000216	0.005099
41	19.8	717.3	-7.5	11.89	0.7	0.6671	0.098472	0.011548	-0.000474	-0.001864	0.00701
35	0.0466	0.002345	-8.8	-2.16	1.32	0.6374	0.099137	-0.001404	0.000445	-0.00041	0.007012
41	19.4	715.4	-7.5	13.62	0.6	0.6647	0.118753	0.014671	-0.000632	-0.001981	0.009677
36	0.0457	0.002344	-9.4	-2.15	1.88	0.6356	0.119652	-0.000955	0.000636	-0.000885	0.009676
17	29.4	718	0	3.45	1	0.6902	0.021211	-0.000713	-9.60E-05	-0.000539	0.001373
5	0.0691	0.002417	-0.4	-1.68	0.37	0.6456	0.021211	-0.000717	-9.60E-05	-0.000191	0.001373
17	29.6	717	0	5.34	1.4	0.689	0.039274	-0.000648	0.000217	-0.000815	0.001869
6	0.0698	0.002412	-0.8	-2.09	0.75	0.644	0.039274	-0.000655	0.000217	-0.000295	0.001869
17	29.7	716.8	0	7.24	1.5	0.6885	0.058915	-0.000795	0.000284	-0.001333	0.002751
7	0.0698	0.00241	-1.1	-2.69	1.1	0.6436	0.058915	-0.000805	0.000284	-8.60E-05	0.002751
17	29.7	717.9	0	8.24	1.4	0.6893	0.068875	-0.000795	0.000408	-0.001585	0.003343
8	0.0697	0.002409	-1.3	-2.9	1.3	0.6443	0.068875	-0.000807	0.000408	-0.000111	0.003343
17	29.7	718.3	0	9.21	1.3	0.6895	0.078894	-0.000847	0.000235	-0.002095	0.004058
9	0.0697	0.002407	-1.5	-3.18	1.49	0.6446	0.078894	-0.00086	0.000236	-0.000132	0.004058
17	29.7	716.3	0	11.02	1.2	0.6876	0.09951	-0.000899	0.000508	-0.002804	0.005771
10	0.0699	0.002406	-2.1	-3.42	2.1	0.6427	0.099509	-0.000916	0.000509	-0.000139	0.005771

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
17	29.5	716.6	0	12.64	1	0.6874	0.118981	-0.000653	0.000497	-0.003797	0.007902
11	0.0695	0.002405	-2.8	-3.67	2.78	0.6427	0.118981	-0.000674	0.000498	-0.000304	0.007902
28	30.2	717.3	0	8.19	1.4	0.6877	0.067748	-0.000767	-0.000137	-0.001482	0.003333
19	0.071	0.00233	-1.4	-3.04	1.44	0.6422	0.067748	-0.000767	-0.000137	-0.000404	0.003333
14	30.1	717.5	-5	8.42	1.5	0.6888	0.067572	0.005292	0.000206	-0.001174	0.003672
6	0.0709	0.002393	-6.2	-2.44	1.23	0.6432	0.067776	-0.000617	0.000526	-0.000179	0.00364
15	29.9	717.6	-5	8.61	1.5	0.6918	0.070068	0.00541	0.000157	-0.001396	0.003794
5	0.0704	0.002421	-6.4	-2.53	1.4	0.6463	0.070273	-0.000718	0.000487	-0.000443	0.003766
15	29.6	717.8	-5	3.93	1	0.6888	0.02052	0.001277	-1.90E-05	-0.000677	0.001518
26	0.0696	0.002402	-5.2	-1.47	0.17	0.6439	0.020553	-0.000517	0.000113	0.000121	0.001514
15	29.7	715.8	-5	5.88	1.4	0.6869	0.038731	0.002804	0.000148	-0.000939	0.00215
27	0.0701	0.002401	-5.6	-1.86	0.55	0.642	0.038828	-0.000582	0.000335	5.30E-05	0.002129
15	30	717.1	-5	7.73	1.5	0.6885	0.058461	0.004431	9.70E-05	-0.001378	0.003165
28	0.0706	0.0024	-6	-2.3	0.98	0.6431	0.058625	-0.000681	0.000373	-4.50E-05	0.003144
15	30	717.2	-5	8.63	1.4	0.6885	0.068206	0.005173	7.0E-06	-0.001623	0.00375
29	0.0706	0.002399	-6.2	-2.5	1.16	0.6431	0.068397	-0.000791	0.000334	5.0E-06	0.003735
15	30.1	717.8	-5	9.56	1.4	0.6892	0.07881	0.006202	-4.60E-05	-0.001939	0.004531
30	0.0708	0.002399	-6.5	-2.62	1.48	0.6436	0.079051	-0.00069	0.000349	-0.000356	0.004518
15	30.1	718.7	-5	11.26	1.2	0.6899	0.098981	0.007772	-9.30E-05	-0.002485	0.006273
31	0.0706	0.002399	-6.9	-2.86	1.88	0.6444	0.099282	-0.000884	0.000454	-0.00019	0.006257
15	30.3	719.9	-5	12.95	1.1	0.6912	0.118202	0.009975	8.0E-06	-0.002942	0.008605
32	0.071	0.002399	-7.7	-2.95	2.73	0.6454	0.118622	-0.000365	0.000758	-0.000573	0.008572

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CPS
21 5	29.9 0.0704	717.4 0.002366	-5 -5.5	3.89 -1.38	1 0.52	0.6914 0.6459	0.019943 0.019955	0.00101 -0.000732	-7.60E-05 5.50E-05	-0.000184 -0.000335	0.0015 0.001501
21 6	30.2 0.0711	716.9 0.002357	-5 -5.8	5.85 -1.95	1.4 0.76	0.6904 0.6446	0.039098 0.039181	0.002657 -0.000761	-0.000262 -7.30E-05	-0.000561 -0.00026	0.002152 0.002166
21 7	30.3 0.0713	716.5 0.002354	-5 -6.1	7.77 -2.37	1.5 1.1	0.6898 0.6439	0.059216 0.059369	0.004331 -0.000846	-0.000278 -2.0E-06	-0.001059 -0.000101	0.003155 0.003167
21 8	30.3 0.0715	716.7 0.002352	-5 -6.3	8.63 -2.56	1.4 1.28	0.6898 0.6438	0.068734 0.068916	0.005097 -0.000913	-0.000297 3.30E-05	-0.001304 9.40E-05	0.003765 0.003776
21 9	30.3 0.0713	717.4 0.002351	-5 -6.5	9.52 -2.72	1.4 1.52	0.69 0.6441	0.078769 0.079001	0.006098 -0.00079	-0.000387 6.0E-06	-0.001678 -0.000168	0.004496 0.004513
21 10	30.5 0.0717	717.1 0.00235	-5 -6.9	11.2 -3	1.3 1.94	0.6897 0.6436	0.098839 0.099129	0.007649 -0.000994	-0.000543 -1.0E-06	-0.00237 -0.00011	0.006191 0.006214
21 11	30.5 0.0718	718.2 0.002347	-5 -7.5	12.82 -3.29	1.1 2.5	0.6907 0.6444	0.119043 0.119391	0.009186 -0.001224	-0.000815 -7.80E-05	-0.003248 -3.50E-05	0.008418 0.008457
40 5	29.9 0.0703	718.1 0.002415	-7.5 -7.9	4.19 -1.27	0.9 0.44	0.6913 0.6459	0.018271 0.018317	0.001554 -0.000845	-0.000243 -4.40E-05	-7.0E-05 -0.000373	0.001513 0.001532
40 6	29.9 0.0704	717.5 0.002407	-7.5 -8.2	6.11 -1.84	1.4 0.7	0.6897 0.6443	0.038085 0.038293	0.004088 -0.000918	-0.000419 -0.00013	-0.000421 -0.000318	0.002182 0.002218
40 7	30.1 0.0708	717.8 0.002403	-7.5 -8.5	7.97 -2.21	1.5 1.01	0.6897 0.6441	0.059546 0.05992	0.00677 -0.00106	-0.000263 0.000162	-0.000791 -0.000117	0.003232 0.003239
40 8	30.2 0.0711	718.1 0.002401	-7.5 -8.7	8.88 -2.33	1.4 1.22	0.6899 0.6441	0.068123 0.068573	0.007911 -0.001049	-0.000544 -3.20E-05	-0.001045 -0.000292	0.003883 0.003921

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
40 9	30.3 0.0712	717.1 0.0024	-7.5 -8.9	9.76 -2.55	1.4 1.45	0.6888 0.643	0.078418 0.078948	0.009197 -0.001117	-0.000614 -3.0E-06	-0.001342 -0.000228	0.004644 0.004684
40 10	30.4 0.0716	716.9 0.002399	-7.5 -9.1	10.6 -2.63	1.3 1.63	0.6887 0.6426	0.088804 0.089409	0.01045 -0.001231	-0.000661 6.0E-05	-0.001593 -9.90E-05	0.005475 0.005515
40 11	30.5 0.0721	715.4 0.002398	-7.5 -9.4	11.53 -2.77	1.3 1.89	0.6873 0.6412	0.099783 0.100478	0.01186 -0.001265	-0.000813 3.80E-05	-0.001989 -0.000172	0.006472 0.006523
40 12	30.5 0.0719	717.5 0.002396	-7.5 -9.9	13.03 -3.01	1.1 2.42	0.6891 0.6429	0.118825 0.119692	0.014429 -0.001204	-0.00113 5.0E-06	-0.002769 -0.000283	0.00862 0.008693
16 6	29.8 0.07	717.5 0.002394	-10 -10.4	4.46 -1.36	0.9 0.35	0.6875 0.6426	0.01889 0.019073	0.002704 -0.000617	-0.000426 -0.000148	-0.000327 -0.00018	0.001563 0.001613
16 7	30.1 0.0708	716.6 0.00239	-10 -10.7	6.29 -1.62	1.4 0.7	0.6866 0.6412	0.038652 0.039145	0.006223 -0.000583	-0.000172 0.000242	-0.000472 -0.000383	0.002366 0.00236
16 8	30.3 0.0713	716.7 0.002388	-10 -10.9	8.18 -1.92	1.5 0.92	0.6868 0.641	0.05826 0.059028	0.009521 -0.00074	-0.00044 0.000161	-0.000796 -1.50E-05	0.003425 0.003449
16 9	30.3 0.0714	717.7 0.002386	-10 -11.1	9 -2.09	1.5 1.1	0.6876 0.6418	0.067457 0.068368	0.011146 -0.000737	-0.000597 0.000113	-0.001025 2.30E-05	0.004036 0.004078
16 10	30.3 0.0713	718.7 0.002386	-10 -11.4	9.92 -2.19	1.4 1.4	0.6884 0.6426	0.077623 0.078712	0.013064 -0.000614	-0.000658 0.000188	-0.001213 -0.000137	0.004816 0.004857
16 11	30.6 0.072	718.2 0.002385	-10 -12	11.6 -2.39	1.3 1.98	0.6883 0.6421	0.097639 0.099086	0.016879 -0.000332	-0.000694 0.000476	-0.001596 -0.000425	0.006678 0.006697
16 12	30.9 0.0727	717 0.002384	-10 -12.7	13.25 -2.4	1.1 2.66	0.6875 0.6409	0.116484 0.118271	0.020478 -6.0E-05	-0.000915 0.000671	-0.001862 -0.000486	0.009054 0.009075

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
18 8	29.7 0.07	716.8 0.0024	-15 -15.3	4.95 -0.94	1.1 0.31	0.6876 0.6426	0.02164 0.022217	0.005081 -0.000693	6.0E-05 0.000534	-0.000173 4.50E-05	0.001837 0.001758
18 9	30 0.0708	716.1 0.002395	-15 -15.7	6.76 -1.37	1.5 0.72	0.6868 0.6414	0.038957 0.040163	0.009787 -0.000629	-0.000294 0.000383	-0.000361 -0.000395	0.002579 0.002567
18 10	30.3 0.0714	716.6 0.002393	-15 -16	8.6 -1.75	1.5 0.96	0.6874 0.6416	0.058199 0.060061	0.014857 -0.000712	-0.001001 -2.20E-05	-0.000801 -0.000219	0.003652 0.003787
18 11	30.5 0.0718	717.8 0.002392	-15 -16.2	9.52 -1.84	1.5 1.18	0.6886 0.6425	0.067932 0.07014	0.017473 -0.000704	-0.001133 3.80E-05	-0.000937 -0.000168	0.004376 0.00452
18 12	30.6 0.0719	717.6 0.002391	-15 -16.4	10.32 -1.93	1.4 1.38	0.6883 0.6421	0.077116 0.079652	0.019949 -0.00069	-0.001301 7.20E-05	-0.001092 -0.000169	0.005136 0.005298
18 13	30.9 0.0727	716.7 0.00239	-15 -16.8	11.97 -2.17	1.3 1.81	0.6878 0.6412	0.096613 0.099829	0.025145 -0.000717	-0.001852 1.80E-05	-0.001628 -0.000178	0.006981 0.007223
18 14	31.3 0.0737	716.4 0.002388	-15 -17.7	13.77 -1.96	1.1 2.7	0.6879 0.6407	0.115163 0.119245	0.030933 7.30E-05	-0.00212 0.000432	-0.001668 -0.000513	0.00958 0.009802
28 20	44.8 0.1056	715.7 0.002327	0 -0.4	3.07 -0.99	1.5 0.36	0.7085 0.6409	0.019292 0.019292	-0.000813 -0.000813	0.000125 0.000125	-3.20E-05 -0.000181	0.001303 0.001303
28 21	44.8 0.1054	717.2 0.002327	0 -0.7	4.65 -1.41	2.4 0.71	0.7099 0.6422	0.038449 0.038449	-0.00082 -0.00082	5.20E-05 5.20E-05	-0.000244 -2.80E-05	0.001574 0.001574
28 22	44.8 0.1054	718 0.002327	0 -1.2	6.38 -1.94	2.7 1.18	0.7106 0.6429	0.058391 0.058391	-0.00076 -0.00076	9.50E-05 9.50E-05	-0.000653 -0.000303	0.002188 0.002188
28 23	44.9 0.1056	716.6 0.002326	0 -1.4	7.26 -2.2	2.7 1.45	0.7094 0.6416	0.068396 0.068396	-0.000827 -0.000827	8.0E-05 8.0E-05	-0.000924 -0.000187	0.0026 0.0026

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
28	45	717.5	0	8.17	2.6	0.7102	0.078277	-0.000799	-1.10E-05	-0.001315	0.003078
24	0.1058	0.002325	-1.8	-2.45	1.78	0.6423	0.078277	-0.000799	-1.10E-05	-9.40E-05	0.003078
28	45.1	718.7	0	9.91	2.4	0.7113	0.098996	-0.00081	3.80E-05	-0.002165	0.004328
25	0.1059	0.002325	-2.4	-2.97	2.41	0.6432	0.098996	-0.00081	3.80E-05	-0.000178	0.004328
28	45.2	717.8	0	11.58	2.1	0.7105	0.118872	-0.000872	1.40E-05	-0.003288	0.005986
26	0.1063	0.002324	-3	-3.6	3.02	0.6422	0.118872	-0.000872	1.40E-05	-0.000251	0.005986
22	44.8	717.7	-5	8.34	2.4	0.711	0.069196	0.004435	-0.000288	-0.00174	0.003481
18	0.1054	0.002342	-6.4	-2.22	1.44	0.6432	0.069319	-0.001613	1.60E-05	-3.80E-05	0.003493
34	45	717.2	-5	4.09	1.5	0.7124	0.020249	0.000855	4.10E-05	-4.70E-05	0.001495
7	0.106	0.002392	-5.4	-0.93	0.43	0.6441	0.020247	-0.000913	0.000171	-0.000313	0.001486
34	45.1	715.7	-5	5.71	2.4	0.7105	0.039677	0.002568	-0.00026	-0.000385	0.002006
8	0.1064	0.002387	-5.8	-1.5	0.78	0.6422	0.03975	-0.0009	-8.40E-05	-0.000215	0.002021
34	45.3	717.5	-5	7.46	2.7	0.712	0.059087	0.004267	-8.0E-05	-0.000695	0.002787
9	0.1066	0.002385	-6.3	-1.84	1.27	0.6435	0.059234	-0.000899	0.000163	-8.0E-05	0.002783
34	45.4	715.6	-5	8.35	2.7	0.71	0.069658	0.00533	-0.000341	-0.001162	0.003349
10	0.1071	0.002381	-6.6	-2.18	1.56	0.6413	0.069857	-0.000762	-4.70E-05	-0.000185	0.003366
34	45.4	717.8	-5	9.21	2.6	0.7119	0.079135	0.006107	-0.000252	-0.001351	0.003937
11	0.1068	0.00238	-6.8	-2.29	1.8	0.6432	0.079366	-0.000813	9.30E-05	-8.80E-05	0.003944
34	45.5	718.1	-5	10.05	2.4	0.7121	0.089131	0.006925	-0.000384	-0.001777	0.004619
12	0.107	0.002379	-7.1	-2.53	2.09	0.6433	0.089395	-0.000869	2.0E-05	-1.80E-05	0.004635
34	45.7	717.7	-5	10.84	2.3	0.7118	0.098931	0.008002	-0.000552	-0.002305	0.005386
13	0.1074	0.002378	-7.5	-2.84	2.52	0.6428	0.099252	-0.000651	-8.10E-05	-0.000399	0.005414

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S CXRHS/S	CMXHS/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
34	45.2	718	-5	12.41	2	0.7112	0.117993	0.009479	-0.000788	-0.003358	0.00723
14	0.1063	0.002376	-8.1	-3.28	3.08	0.6429	0.11837	-0.000841	-0.000155	-0.000301	0.007271
40	44.7	717	-7.5	4.43	1.5	0.7101	0.019943	0.001716	-0.000236	8.30E-05	0.00158
13	0.1053	0.002392	-7.9	-0.92	0.36	0.6425	0.019997	-0.000902	-2.80E-05	-3.10E-05	0.001597
40	44.9	717.1	-7.5	6.13	2.3	0.7104	0.03894	0.004236	-0.000223	-0.000127	0.002194
14	0.1057	0.002392	-8.3	-1.34	0.8	0.6425	0.039159	-0.000882	6.60E-05	-0.000211	0.002204
40	45.1	718.5	-7.5	7.86	2.6	0.712	0.058898	0.006798	-0.000396	-0.000513	0.00311
15	0.106	0.002392	-8.8	-1.73	1.28	0.6437	0.059281	-0.000948	1.40E-05	-4.50E-05	0.003135
40	45.2	716.7	-7.5	8.74	2.6	0.7105	0.068792	0.00819	-0.00044	-0.000781	0.003714
16	0.1064	0.002392	-9.1	-1.94	1.61	0.6422	0.069272	-0.000859	4.90E-05	-0.000294	0.00374
40	45.3	717	-7.5	9.57	2.5	0.7109	0.078826	0.009455	-0.000473	-0.001042	0.004346
17	0.1066	0.002392	-9.4	-2.11	1.9	0.6424	0.079386	-0.000915	9.80E-05	-0.000189	0.004371
40	45.4	716	-7.5	10.42	2.4	0.7102	0.088733	0.010743	-0.000624	-0.001435	0.005102
18	0.1071	0.002391	-9.7	-2.34	2.23	0.6415	0.089377	-0.000931	4.70E-05	-0.000223	0.00514
40	45.4	715.4	-7.5	11.26	2.3	0.7096	0.099528	0.012255	-0.000713	-0.001904	0.005934
19	0.1072	0.002391	-10.1	-2.54	2.61	0.6409	0.100276	-0.00084	6.80E-05	-0.00035	0.005977
40	45.7	718.4	-7.5	12.9	2	0.7126	0.118616	0.014694	-0.001082	-0.002904	0.008034
20	0.1073	0.002391	-10.9	-2.95	3.37	0.6435	0.119519	-0.000914	-2.40E-05	-0.000205	0.008106
17	59.8	717	0	3.14	2	0.734	0.02002	-0.000719	-0.000204	-0.000435	0.001282
12	0.1408	0.002397	-0.4	-0.98	0.39	0.6434	0.02002	-0.000722	-0.000203	-0.000249	0.001282
17	59.9	716.3	0	4.61	3.4	0.7335	0.039342	-0.000644	0.000115	-0.000579	0.001521
13	0.1412	0.002397	-0.9	-1.15	0.89	0.6427	0.039342	-0.000651	0.000115	-0.000117	0.001521

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
17	60.1	718.5	0	6.23	4.1	0.7356	0.059345	-0.000478	0.000172	-0.000878	0.001991
14	0.1411	0.002397	-1.5	-1.49	1.47	0.6447	0.059345	-0.000488	0.000172	-0.000244	0.001991
17	60.1	717.7	0	6.97	4.1	0.735	0.067678	-0.000408	0.000112	-0.001119	0.002278
15	0.1414	0.002396	-1.7	-1.71	1.71	0.6439	0.067678	-0.00042	0.000112	-0.000188	0.002278
17	60.1	720.8	0	7.89	3.9	0.7376	0.078345	-0.000284	0.000266	-0.001316	0.002763
16	0.1407	0.002396	-2.2	-1.84	2.15	0.6466	0.078345	-0.000298	0.000267	-0.000264	0.002763
17	60.2	717.5	0	9.57	3.7	0.7347	0.099378	-6.50E-05	0.000303	-0.002012	0.003833
17	0.1415	0.002396	-3	-2.27	2.96	0.6436	0.099378	-8.30E-05	0.000304	-0.000354	0.003833
17	60.2	716.6	0	11.21	3.2	0.7338	0.119193	0.000469	0.000593	-0.002746	0.00527
18	0.1417	0.002395	-3.9	-2.59	3.89	0.6427	0.119193	0.000448	0.000594	-0.000752	0.00527
28	60	717.7	0	6.92	4.1	0.7329	0.068855	-0.00092	-6.40E-05	-0.00091	0.002258
27	0.1412	0.002318	-1.6	-1.71	1.61	0.6422	0.068855	-0.00092	-6.40E-05	2.20E-05	0.002258
14	60.1	717.9	-5	8.21	3.9	0.7344	0.069594	0.005559	-0.000183	-0.000928	0.003287
7	0.1414	0.002381	-6.9	-1.6	1.85	0.6434	0.069813	-0.000528	0.000104	-3.80E-05	0.00329
15	60.1	717.4	-5	8.09	3.8	0.7368	0.068072	0.00499	-0.000633	-0.001181	0.003183
6	0.1413	0.002406	-6.8	-1.78	1.79	0.6456	0.068248	-0.000961	-0.000353	-0.000175	0.003226
15	59.7	717.2	-5	4.15	1.9	0.7345	0.018894	0.000934	0.000189	-0.000629	0.001559
19	0.1406	0.002397	-5.4	-0.7	0.43	0.644	0.018904	-0.000716	0.000324	-0.000415	0.001536
15	59.9	717.3	-5	5.75	3.3	0.7348	0.039031	0.002669	-2.0E-06	-0.000809	0.002035
20	0.1411	0.002396	-5.9	-1.05	0.89	0.644	0.039115	-0.000743	0.000175	-8.10E-05	0.002027
15	60.1	717.8	-5	7.31	3.8	0.7354	0.058273	0.004342	3.80E-05	-0.001083	0.002778
21	0.1412	0.002397	-6.5	-1.35	1.47	0.6444	0.05843	-0.000753	0.00028	7.0E-06	0.002764

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
15	60.1	718.3	-5	8.12	3.8	0.736	0.067785	0.005253	0.000149	-0.001211	0.003267
22	0.1413	0.002396	-6.8	-1.45	1.85	0.6449	0.067985	-0.000675	0.000433	-0.000111	0.003241
15	60.2	716.6	-5	9.03	3.8	0.7347	0.078176	0.006273	6.0E-06	-0.001528	0.003849
23	0.1419	0.002395	-7.2	-1.7	2.24	0.6434	0.078426	-0.000564	0.000341	-0.000312	0.003834
15	60.3	718.5	-5	10.65	3.5	0.7365	0.098232	0.00824	-9.20E-05	-0.002197	0.005197
24	0.1417	0.002395	-8	-2.08	3.03	0.645	0.098576	-0.000353	0.000362	-0.00049	0.005185
15	60.4	716.6	-5	12.4	3	0.7349	0.118401	0.01074	0.000133	-0.002816	0.007205
25	0.1422	0.002396	-9.4	-2.26	4.42	0.6434	0.118886	0.00038	0.000761	-0.000874	0.007166
22	60.1	718.8	-5	4.13	1.9	0.7388	0.019371	0.000457	-0.000198	2.90E-05	0.001502
5	0.1411	0.002359	-5.3	-0.76	0.33	0.6474	0.019337	-0.001233	-6.60E-05	7.0E-06	0.001513
22	60.2	717.6	-5	5.72	3.3	0.7371	0.039289	0.002288	-0.000238	-0.000264	0.002011
6	0.1416	0.002354	-5.9	-1.06	0.92	0.6457	0.039339	-0.001145	-6.10E-05	-8.90E-05	0.002024
22	60.4	717.6	-5	7.44	3.8	0.737	0.059669	0.004182	-0.000277	-0.00068	0.002823
7	0.142	0.002351	-6.6	-1.43	1.62	0.6453	0.059806	-0.001034	-3.0E-05	-0.000184	0.002836
22	60.4	718.7	-5	8.21	3.8	0.7377	0.068809	0.005065	-0.000298	-0.000971	0.003271
8	0.142	0.002349	-6.9	-1.6	1.93	0.646	0.068988	-0.000952	-1.20E-05	-0.000174	0.003284
22	60.4	716.9	-5	9.04	3.7	0.7358	0.078642	0.005926	-0.000305	-0.001264	0.00382
9	0.1423	0.002348	-7.3	-1.84	2.29	0.6442	0.078859	-0.000951	2.90E-05	-0.000226	0.003832
22	60.6	715.8	-5	10.68	3.5	0.7349	0.098767	0.007725	-0.000454	-0.00206	0.005158
10	0.1429	0.002346	-8.1	-2.2	3.09	0.643	0.099064	-0.000912	-3.0E-06	-0.0001	0.005178
40	59.8	716.3	-7.5	4.75	1.9	0.7323	0.019539	0.001631	-0.000361	3.10E-05	0.001633
21	0.141	0.002386	-7.9	-0.81	0.43	0.6419	0.019585	-0.000934	-0.000145	-0.000347	0.001666

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
40	60.1	718.2	-7.5	6.42	3.2	0.7344	0.039307	0.004243	-0.000334	-0.000119	0.002291
22	0.1412	0.002386	-8.5	-0.99	0.99	0.6435	0.039525	-0.000924	-3.20E-05	-9.90E-05	0.002315
40	59.9	717.6	-7.5	8.04	3.7	0.7336	0.05875	0.006857	-0.00042	-0.00043	0.003165
23	0.141	0.002386	-9.1	-1.34	1.62	0.643	0.059142	-0.00087	-3.0E-06	-9.30E-05	0.003193
40	60.1	718.9	-7.5	8.79	3.7	0.735	0.067309	0.008139	-0.000484	-0.000659	0.00367
24	0.141	0.002387	-9.5	-1.52	2	0.6442	0.067796	-0.000716	0	-0.000448	0.003702
40	60.2	716.7	-7.5	9.7	3.7	0.7331	0.079794	0.009538	-0.000564	-0.000949	0.004357
25	0.1417	0.002386	-9.8	-1.69	2.3	0.6421	0.080356	-0.000959	9.0E-06	-3.90E-05	0.004394
40	60.1	717	-7.5	10.46	3.6	0.7333	0.088176	0.010871	-0.000654	-0.001263	0.005003
26	0.1416	0.002387	-10.2	-1.86	2.7	0.6424	0.088841	-0.000731	5.0E-06	-0.000346	0.005046
40	60.2	717.6	-7.5	11.32	3.4	0.7339	0.099143	0.012625	-0.000733	-0.0017	0.005904
27	0.1416	0.002386	-10.9	-2.08	3.35	0.6429	0.099942	-0.000424	4.40E-05	-0.000759	0.005949
40	60.4	718.2	-7.5	12.92	3	0.7348	0.118963	0.015572	-0.000986	-0.002728	0.007808
28	0.142	0.002386	-11.8	-2.43	4.3	0.6434	0.119978	-8.90E-05	4.10E-05	-0.000877	0.00787
16	59.8	717.8	-10	5.1	1.9	0.7322	0.018614	0.00255	-0.000485	4.30E-05	0.001672
13	0.1405	0.002377	-10.4	-0.74	0.37	0.642	0.018774	-0.000721	-0.000187	-8.20E-05	0.001731
16	60	717.1	-10	6.75	3.3	0.732	0.038405	0.00608	-0.000451	-0.000138	0.002449
14	0.1413	0.002377	-10.9	-0.94	0.92	0.6413	0.038877	-0.000681	-1.90E-05	-5.20E-05	0.00249
16	60.2	718.7	-10	8.4	3.8	0.7336	0.058219	0.009774	-0.000434	-0.000394	0.003515
15	0.1413	0.002377	-11.7	-1.2	1.69	0.6428	0.059032	-0.000484	0.000183	-0.000358	0.003537
16	60.2	716.5	-10	9.2	3.8	0.7316	0.068048	0.011425	-0.000841	-0.000767	0.004069
16	0.1418	0.002377	-12	-1.5	2.01	0.6407	0.068998	-0.000565	-0.000121	-0.000281	0.004153

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CPS
16	60.4	717.5	-10	10.06	3.7	0.7329	0.077304	0.013073	-0.000829	-0.000947	0.004764
17	0.1421	0.002377	-12.3	-1.59	2.33	0.6417	0.078399	-0.000549	1.0E-05	-0.000362	0.004836
16	60.6	716.9	-10	11.68	3.5	0.7326	0.098379	0.016809	-0.001132	-0.001665	0.006344
18	0.1427	0.002377	-13.1	-1.96	3.12	0.6412	0.099804	-0.000529	-1.30E-05	-0.000328	0.006444
16	60.6	716.9	-10	13.23	3	0.7327	0.118177	0.020096	-0.001447	-0.002546	0.008279
19	0.1428	0.002377	-13.8	-2.37	3.82	0.6411	0.119872	-0.00073	1.30E-05	-0.000214	0.008404
18	59.9	718.2	-15	6.11	1.9	0.7329	0.018373	0.004228	-0.000393	0.000104	0.00192
15	0.1407	0.00238	-15.7	-0.44	0.65	0.6425	0.018841	-0.000671	0.000117	-6.90E-05	0.001956
18	60	716.3	-15	7.74	3.3	0.7316	0.037888	0.009459	-0.000705	-7.60E-05	0.002887
16	0.1415	0.00238	-16.2	-0.72	1.21	0.641	0.039045	-0.00067	6.70E-05	-1.70E-05	0.002971
18	60.3	717.5	-15	9.37	3.8	0.733	0.056974	0.014581	-0.001009	-0.000326	0.004092
17	0.1418	0.00238	-16.8	-0.97	1.75	0.6419	0.058807	-0.000661	8.50E-05	-2.10E-05	0.004214
18	60.4	717.8	-15	10.22	3.8	0.7334	0.067318	0.017354	-0.001072	-0.000446	0.004873
18	0.142	0.00238	-17	-1.1	2.05	0.6422	0.069516	-0.000661	0.000226	-7.40E-05	0.004985
18	60.4	719	-15	11.02	3.6	0.7345	0.076809	0.019937	-0.00145	-0.000753	0.005643
19	0.1419	0.002379	-17.5	-1.25	2.46	0.6433	0.079352	-0.000622	6.0E-05	-0.000163	0.005826
18	60.6	717.1	-15	12.59	3.4	0.7331	0.096233	0.025504	-0.001544	-0.001004	0.007545
20	0.1427	0.002379	-18.3	-1.4	3.32	0.6415	0.099555	-0.000272	0.000461	-0.000407	0.007688
18	60.9	716.6	-15	14.08	3	0.7329	0.116218	0.030818	-0.002326	-0.001927	0.009676
21	0.1434	0.002379	-19.1	-1.87	4.07	0.641	0.120234	-0.000312	0.000258	-0.000318	0.009949
24	74.8	718.1	0	3.14	2.2	0.7588	0.019593	-0.001411	-8.0E-05	-0.000692	0.00129
18	0.1758	0.002355	-0.1	-0.75	0.08	0.6453	0.019593	-0.001411	-8.0E-05	-3.60E-05	0.00129

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
24 19	74.8 0.1761	717.3 0.002356	0 -0.8	4.61 -0.97	4 0.81	0.7581 0.6446	0.039243 0.039243	-0.001376 -0.001376	-3.90E-05 -3.90E-05	-0.000873 7.0E-06	0.001467 0.001467
24 20	74.9 0.1761	717.8 0.002355	0 -1.5	6.18 -1.27	4.9 1.47	0.7586 0.645	0.058368 0.058368	-0.001299 -0.001299	-2.40E-05 -2.40E-05	-0.001145 -0.000157	0.00188 0.00188
24 21	74.9 0.1764	716.8 0.002355	0 -1.9	6.89 -1.4	5.1 1.87	0.7578 0.6442	0.067963 0.067963	-0.001168 -0.001168	-2.70E-05 -2.70E-05	-0.001358 -0.000446	0.002158 0.002158
24 22	74.9 0.1762	717.9 0.002355	0 -2.2	7.69 -1.52	5.1 2.24	0.7587 0.6451	0.078719 0.078719	-0.001204 -0.001204	5.0E-06 5.0E-06	-0.001577 -0.000203	0.002488 0.002488
24 23	75.1 0.1766	717.4 0.002355	0 -3.4	9.44 -1.71	4.8 3.4	0.7585 0.6446	0.099215 0.099215	-0.000725 -0.000725	0.000268 0.000268	-0.002041 -0.000523	0.003499 0.003499
28 28	75.1 0.1766	718.1 0.002311	0 -1.9	6.83 -1.28	5.3 1.92	0.7561 0.6426	0.068103 0.068103	-0.001011 -0.001011	7.40E-05 7.40E-05	-0.000747 -2.80E-05	0.002089 0.002089
22 17	75.2 0.1767	718.1 0.002333	-5 -7.2	8.49 -1.3	4.6 2.24	0.758 0.6442	0.069005 0.069125	0.004389 -0.001642	-0.000391 -9.40E-05	-0.001468 -0.000138	0.003398 0.003419
34 15	75 0.1767	716.3 0.002367	-5 -5.3	4.59 -0.59	2.5 0.28	0.7554 0.6419	0.020204 0.020185	0.00067 -0.001093	-0.000214 -8.10E-05	-6.90E-05 0.000104	0.001515 0.001528
34 16	75.2 0.1765	718.8 0.002366	-5 -6	6.09 -0.8	4.1 1	0.7577 0.6441	0.039123 0.03917	0.002242 -0.001176	-0.000116 6.50E-05	-0.000257 7.30E-05	0.002073 0.002075
34 17	75.2 0.1772	716.5 0.002365	-5 -6.8	7.64 -1.19	5 1.81	0.7556 0.6419	0.059006 0.05913	0.003999 -0.001159	-0.000461 -0.000217	-0.000713 -9.40E-05	0.002774 0.002804
34 18	75.3 0.1779	714.9 0.002364	-5 -7.2	8.52 -1.24	5.1 2.24	0.7543 0.6404	0.070097 0.070259	0.00492 -0.001208	-0.000369 -8.10E-05	-0.000914 -8.50E-05	0.003297 0.003316

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	LDR B1S	MAT MTIP	CLRH/S CLRH/S	CXRH/S CXRH/S	CMXH/S CMXH/S	CYRH/S CMYH/S	CMZH/S CP/S
34 19	75.4 0.1773	718.1 0.002365	-5 -7.6	9.3 -1.33	5.1 2.6	0.7573 0.6432	0.079482 0.079683	0.005773 -0.001177	-0.000215 0.000115	-0.001042 -0.000216	0.003786 0.00379
34 20	75.4 0.1777	716.5 0.002363	-5 -8	10.09 -1.54	5 3.02	0.7558 0.6417	0.089724 0.089958	0.006598 -0.001247	-0.000437 -5.50E-05	-0.0015 -0.000113	0.004359 0.004381
34 21	75.3 0.1771	717.4 0.002363	-5 -8.5	10.91 -1.67	4.7 3.54	0.7562 0.6424	0.099089 0.099357	0.007407 -0.001257	-0.000521 -7.80E-05	-0.001872 4.10E-05	0.005058 0.005084
34 22	75.4 0.1773	717.7 0.002362	-5 -9.6	12.58 -2	4.1 4.62	0.7566 0.6426	0.118884 0.119251	0.0094 -0.000997	-0.000714 -0.000117	-0.00286 -0.000225	0.006821 0.006857
35 32	75.2 0.1775	715.3 0.00234	-7.5 -8.2	5.35 -0.57	2.3 0.71	0.7506 0.6375	0.020076 0.020034	0.000992 -0.001637	7.40E-05 0.000306	-0.000771 -0.00088	0.00178 0.001755
35 33	75.1 0.1769	717.1 0.002342	-7.5 -8.9	6.87 -0.71	3.9 1.38	0.7523 0.6392	0.039378 0.039521	0.003679 -0.001492	3.0E-06 0.000324	-0.000893 -0.000657	0.002458 0.002436
35 34	75.2 0.1772	716.4 0.002343	-7.5 -9.7	8.37 -1.04	4.8 2.19	0.7521 0.6389	0.058791 0.059132	0.006462 -0.001267	-0.000249 0.000186	-0.001221 -0.000824	0.003314 0.003318
40 29	75.3 0.1775	716.3 0.002381	-7.5 -10.1	9.26 -1.13	4.9 2.63	0.756 0.642	0.06924 0.069749	0.008435 -0.000675	-0.000482 4.0E-05	-0.000618 -0.000547	0.003969 0.003998
40 30	75.1 0.177	716.6 0.002381	-7.5 -10.6	10.08 -1.32	4.9 3.09	0.7559 0.6423	0.078886 0.079506	0.009918 -0.000464	-0.000586 1.60E-05	-0.000946 -0.00086	0.00457 0.004607
40 31	75.2 0.1771	716.9 0.002381	-7.5 -11	10.85 -1.36	4.8 3.54	0.7564 0.6426	0.08952 0.090227	0.011288 -0.000493	-0.000536 0.000156	-0.001116 -0.000573	0.005267 0.005292
40 32	75.2 0.177	717.4 0.002381	-7.5 -11.6	11.66 -1.51	4.5 4.11	0.7568 0.643	0.097714 0.098543	0.012754 -0.000109	-0.000677 0.000117	-0.001491 -0.000959	0.006036 0.006072

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
40	75.4	717.4	-7.5	13.21	4.1	0.7571	0.11829	0.015503	-0.000553	-0.002054	0.007831
33	0.1775	0.002381	-12.6	-1.66	5.08	0.643	0.119302	-6.90E-05	0.000474	-0.000756	0.007836
41	75	719.7	-10	5.89	2.3	0.7542	0.019439	0.002148	-0.000367	-0.000111	0.001851
13	0.176	0.00234	-10.7	-0.52	0.73	0.6413	0.019516	-0.00126	-4.0E-05	-0.000631	0.001887
41	75.2	716.8	-10	7.42	4	0.7519	0.038947	0.005717	-0.000311	-0.000195	0.002718
14	0.1771	0.00234	-11.4	-0.66	1.44	0.6388	0.039348	-0.001133	0.000166	-0.000485	0.002731
41	75.3	717.4	-10	9.02	4.7	0.7526	0.057976	0.009208	-0.000611	-0.00049	0.003757
15	0.1772	0.002339	-12.2	-0.9	2.2	0.6393	0.058694	-0.001	5.10E-05	-0.000487	0.003806
41	75.4	718.3	-10	9.79	4.8	0.7535	0.067788	0.010874	-0.000695	-0.000624	0.004365
16	0.1771	0.002339	-12.5	-1.03	2.5	0.6401	0.068647	-0.001062	7.30E-05	-0.000198	0.00442
41	75.4	716.2	-10	10.64	4.8	0.7517	0.078559	0.012848	-0.000782	-0.000878	0.005116
17	0.1776	0.002339	-12.9	-1.16	2.94	0.6383	0.079596	-0.000989	0.000118	-0.000267	0.005174
41	75.8	718.2	-10	12.3	4.5	0.7541	0.097793	0.016747	-0.000831	-0.001317	0.006821
18	0.1781	0.002339	-14.1	-1.33	4.06	0.6401	0.099216	-0.000489	0.000366	-0.000662	0.006862
17	89.9	716.6	0	3.31	2.7	0.7796	0.018739	-0.000817	-0.000259	-0.000529	0.001309
19	0.2119	0.002383	-0.6	-0.65	0.58	0.6433	0.018738	-0.00082	-0.000259	-0.001021	0.001309
17	90	716.2	0	4.68	5.1	0.7792	0.038935	-0.000793	6.60E-05	-0.00068	0.001449
20	0.212	0.002382	-1.1	-0.65	1.06	0.6429	0.038935	-0.0008	6.60E-05	7.90E-05	0.001449
17	90.2	716.9	0	6.25	6.4	0.7799	0.058227	-0.000476	0.000159	-0.000979	0.001843
21	0.2123	0.002382	-2	-0.88	1.98	0.6433	0.058227	-0.000486	0.00016	-0.000437	0.001843
17	90.2	717.7	0	7.02	6.5	0.7808	0.068014	-0.000437	0.000168	-0.001178	0.002115
22	0.212	0.002382	-2.4	-0.97	2.39	0.6442	0.068014	-0.000449	0.000168	-0.000343	0.002115

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
17	90.2	716.9	0	7.77	6.7	0.7803	0.078395	-0.000462	0.000123	-0.001484	0.002389
23	0.2123	0.002383	-2.8	-1.11	2.78	0.6436	0.078395	-0.000475	0.000123	-9.0E-05	0.002389
17	90.3	718.6	0	9.35	6.4	0.7819	0.098547	-0.00027	0.000228	-0.002044	0.003202
24	0.212	0.002383	-3.8	-1.3	3.78	0.6451	0.098547	-0.000287	0.000228	-5.70E-05	0.003202
17	90.4	717.9	0	11.14	5.6	0.7816	0.118068	0.000626	0.000561	-0.00259	0.004586
25	0.2126	0.002383	-5.3	-1.39	5.25	0.6446	0.118068	0.000605	0.000562	-0.000476	0.004586
28	90.2	718	0	6.91	6.3	0.779	0.067513	-0.001191	-0.000147	-0.000845	0.002024
29	0.212	0.002302	-2.2	-1.03	2.21	0.6427	0.067513	-0.001191	-0.000147	-4.40E-05	0.002024
14	90.4	716.1	-5	8.67	6.4	0.7791	0.068037	0.005556	-0.000115	-0.00068	0.003466
8	0.2132	0.002367	-7.7	-0.81	2.74	0.6422	0.068262	-0.000395	0.000187	-0.00027	0.003463
15	90.3	718.4	-5	8.65	5.9	0.784	0.067535	0.004904	-0.000432	-0.000708	0.003431
7	0.2122	0.002391	-7.7	-0.87	2.7	0.6467	0.067705	-0.001	-0.000131	4.50E-05	0.003455
15	90.1	718.1	-5	4.88	2.8	0.782	0.019956	0.000762	-0.000451	-0.000546	0.00163
12	0.2117	0.002382	-5.6	-0.62	0.6	0.6454	0.019947	-0.00098	-0.000307	-0.000501	0.001663
15	90.1	718.3	-5	6.38	5.1	0.7824	0.039467	0.002628	-0.000163	-0.000691	0.002196
13	0.2117	0.002383	-6.4	-0.63	1.45	0.6457	0.039546	-0.000822	2.90E-05	-0.000386	0.002202
15	90.3	717.9	-5	7.84	6.2	0.7823	0.058217	0.004288	8.40E-05	-0.000778	0.002932
14	0.2123	0.002383	-7.2	-0.62	2.17	0.6453	0.058369	-0.000802	0.00034	-7.60E-05	0.002913
15	90.2	717.1	-5	8.74	6.3	0.7815	0.06909	0.005387	-5.70E-05	-0.001076	0.003461
15	0.2122	0.002384	-7.8	-0.8	2.78	0.6447	0.069296	-0.000655	0.000245	-0.000232	0.003453
15	90.3	717.1	-5	9.6	6.1	0.7817	0.077636	0.00636	-0.000122	-0.00129	0.004051
16	0.2126	0.002384	-8.3	-0.89	3.34	0.6447	0.077895	-0.00043	0.000231	-0.000485	0.004046

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
15	90.5	718.5	-5	11.19	6	0.7832	0.098189	0.008593	9.80E-05	-0.001718	0.005323
17	0.2126	0.002384	-9.6	-0.96	4.57	0.6459	0.098564	2.0E-06	0.000561	-0.000562	0.005294
15	90.6	719	-5	13.14	5	0.7838	0.118433	0.011283	-8.80E-05	-0.002645	0.007453
18	0.2128	0.002384	-11.3	-1.11	6.28	0.6463	0.118965	0.000918	0.000562	-0.000757	0.007433
22	90.1	717	-5	4.84	2.7	0.781	0.020214	0.000267	-0.000134	-0.000191	0.001665
11	0.2121	0.002332	-5.4	-0.43	0.45	0.6444	0.02016	-0.001496	1.10E-05	-3.20E-05	0.001671
22	90.2	717.1	-5	6.28	4.6	0.781	0.038456	0.001776	-9.90E-05	-0.000389	0.002165
12	0.2123	0.00233	-6.2	-0.56	1.15	0.6443	0.038464	-0.001583	9.0E-05	8.40E-05	0.002165
22	90.3	716.7	-5	7.93	5.7	0.7806	0.059821	0.003515	-0.000426	-0.000831	0.002969
13	0.2127	0.002329	-7.1	-0.82	2.13	0.6437	0.0599	-0.001712	-0.000166	0.000361	0.002995
22	90.3	717.9	-5	8.73	5.8	0.7816	0.067582	0.004534	-0.000281	-0.001031	0.003443
14	0.2124	0.002329	-7.7	-0.89	2.75	0.6447	0.06772	-0.001374	2.0E-05	-0.000379	0.003454
22	90.3	718.3	-5	9.58	6	0.7819	0.080432	0.005539	-0.000411	-0.001466	0.003987
15	0.2123	0.002328	-8.3	-1.04	3.31	0.645	0.080609	-0.001492	-6.20E-05	-2.80E-05	0.004008
35	90.3	716.8	-7.5	5.78	2.7	0.7805	0.020264	0.001107	-0.000683	0.000211	0.001769
5	0.2125	0.002368	-8.4	-0.49	0.87	0.6437	0.020235	-0.001547	-0.000446	-0.000956	0.001843
35	90.4	716.1	-7.5	7.17	4.6	0.7795	0.038898	0.003542	-0.000457	0.000187	0.002506
6	0.213	0.002364	-9	-0.52	1.53	0.6426	0.039027	-0.001566	-0.000126	-0.000271	0.002544
35	90.3	718.7	-7.5	8.81	5.6	0.7813	0.057991	0.006287	-0.000529	-0.0001	0.003497
7	0.212	0.002362	-10	-0.7	2.49	0.6446	0.058315	-0.001336	-6.80E-05	-0.000393	0.003536
35	90.3	716.3	-7.5	9.64	6	0.7789	0.069311	0.007824	-0.0006	-0.000382	0.004079
8	0.2128	0.002361	-10.5	-0.8	2.98	0.6422	0.069739	-0.00129	-6.20E-05	-0.000285	0.004123

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRH/S	CXRH/S CXRH/S	CMXH/S CMXH/S	CYRH/S CMYH/S	CMZH/S CP/S
35 9	90.4 0.2127	717.5 0.002359	-7.5 -11.2	10.47 -0.84	5.9 3.73	0.7798 0.6431	0.077786 0.07834	0.009343 -0.00089	-0.000593 3.30E-05	-0.00061 -0.000684	0.004757 0.004794
35 10	90.4 0.2124	718.2 0.002358	-7.5 -11.8	11.26 -0.94	6 4.26	0.7802 0.6435	0.087766 0.088451	0.011004 -0.000546	-0.000579 0.000135	-0.000967 -0.001056	0.005435 0.005464
35 11	90.5 0.2125	719.2 0.002357	-7.5 -12.3	12.1 -0.99	5.8 4.81	0.7812 0.6443	0.098399 0.099188	0.012493 -0.000457	-0.000527 0.000293	-0.001203 -0.000815	0.006246 0.006262
35 12	90.6 0.2135	716.7 0.002355	-7.5 -13.5	13.2 -1.14	5.4 6.02	0.7789 0.6418	0.109435 0.110463	0.01505 0.000637	-0.0007 0.000283	-0.001838 -0.001819	0.007486 0.007514
16 20	89.9 0.2117	716.8 0.002367	-10 -10.6	6.38 -0.43	2.8 0.58	0.7776 0.6417	0.020852 0.020932	0.002286 -0.00137	-0.000517 -0.000165	0.000124 0.00024	0.001982 0.002042
16 21	90.1 0.2117	718.3 0.002368	-10 -11.7	7.92 -0.49	4.7 1.69	0.7793 0.6431	0.038491 0.038892	0.005676 -0.001095	-0.00053 -1.90E-05	-6.70E-05 -0.000273	0.002894 0.002942
16 22	90.3 0.2119	719.1 0.002367	-10 -12.6	9.55 -0.72	5.8 2.64	0.7803 0.6439	0.05883 0.059584	0.009488 -0.000872	-0.00072 5.0E-06	-0.000401 -0.000453	0.004108 0.004171
16 23	90.4 0.2125	717.8 0.002367	-10 -13	10.39 -0.8	5.9 2.97	0.7793 0.6427	0.068653 0.069542	0.011126 -0.000965	-0.000827 1.0E-05	-0.000574 -8.10E-05	0.004749 0.004821
16 24	90.4 0.2131	715.9 0.002366	-10 -13.7	11.14 -0.81	5.9 3.72	0.7776 0.641	0.077158 0.078245	0.013013 -0.000583	-0.000801 0.000168	-0.000748 -0.000356	0.005509 0.005564
16 25	90.6 0.2132	717.2 0.002367	-10 -14.7	12.8 -1.21	5.5 4.74	0.7792 0.6422	0.097501 0.09891	0.016642 -0.000541	-0.001507 -0.000235	-0.001693 -0.000117	0.007192 0.007344
16 26	90.8 0.2137	717.5 0.002366	-10 -16.3	14.41 -1.36	5 6.32	0.7797 0.6424	0.116172 0.118094	0.021232 0.000737	-0.001678 -2.40E-05	-0.002607 -0.001277	0.00938 0.009529

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
28	104.8	717.6	0	3.12	2.6	0.8006	0.018231	-0.001738	-9.90E-05	-0.000281	0.001307
30	0.2466	0.002291	0.1	-0.35	-0.06	0.6423	0.018231	-0.001738	-9.90E-05	-0.000299	0.001307
28	105.2	717.1	0	4.6	4.9	0.8004	0.037064	-0.001661	-9.0E-05	-0.000522	0.001457
31	0.2476	0.00229	-1	-0.52	0.95	0.6416	0.037064	-0.001661	-9.0E-05	-0.000462	0.001457
28	105.1	718.5	0	6.2	6.5	0.8015	0.057036	-0.001606	-0.000188	-0.000946	0.001771
32	0.2469	0.002288	-1.9	-0.76	1.92	0.6428	0.057036	-0.001606	-0.000188	-0.000303	0.001771
28	105.1	718.6	0	6.95	7.2	0.8013	0.068919	-0.001722	-9.70E-05	-0.001193	0.001921
33	0.2468	0.002286	-2.4	-0.78	2.36	0.6427	0.068919	-0.001722	-9.70E-05	4.90E-05	0.001921
28	105	717	0	7.8	7.1	0.7994	0.076964	-0.001616	-3.80E-05	-0.001437	0.002281
34	0.2472	0.002285	-3	-0.82	2.97	0.641	0.076964	-0.001616	-3.80E-05	-5.50E-05	0.002281
28	105.1	718.3	0	9.63	7	0.8006	0.099472	-0.001154	-7.0E-06	-0.002146	0.003208
35	0.247	0.002283	-4.4	-0.98	4.43	0.642	0.099472	-0.001154	-7.0E-06	-0.000424	0.003208
28	105.3	719.5	0	10.35	6.9	0.8017	0.10868	-0.000816	4.30E-05	-0.002573	0.00367
36	0.247	0.002282	-5	-1.07	4.99	0.6429	0.10868	-0.000816	4.30E-05	-0.000764	0.00367
22	105.3	715.1	-5	9.21	6.5	0.8019	0.069208	0.004137	-0.000485	-0.001223	0.00365
16	0.2485	0.002319	-8.2	-0.64	3.21	0.6423	0.069306	-0.001911	-0.000165	8.70E-05	0.003678
34	105	716.1	-5	5.14	2.6	0.8007	0.019129	-0.000331	-0.000392	-8.80E-05	0.001693
23	0.2474	0.002347	-5.2	-0.28	0.24	0.6419	0.019028	-0.001997	-0.000243	0.000262	0.001721
34	105.1	717.7	-5	6.89	5.2	0.8022	0.041191	0.001658	-0.000203	-0.000345	0.002372
24	0.2472	0.002347	-6.5	-0.34	1.47	0.6432	0.041179	-0.001938	4.0E-06	-0.000186	0.002381
34	105.4	717.7	-5	8.45	6.3	0.8024	0.059027	0.003314	-0.000326	-0.000687	0.003142
25	0.2479	0.002344	-7.5	-0.51	2.51	0.643	0.059091	-0.001843	-5.10E-05	-0.000216	0.003158

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/D B1S	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CPS
34	105.2	716.4	-5	9.24	6.7	0.8008	0.069913	0.004177	-0.000275	-0.000884	0.00363
26	0.2479	0.002344	-8.1	-0.55	3.11	0.6417	0.070011	-0.001932	4.20E-05	7.30E-05	0.00364
34	105.4	717.4	-5	10.1	6.9	0.8018	0.080073	0.005065	-0.000408	-0.001298	0.004133
27	0.2479	0.002343	-8.6	-0.7	3.62	0.6425	0.08021	-0.001933	-4.60E-05	2.30E-05	0.004153
34	105.3	718.6	-5	10.84	6.6	0.8026	0.088282	0.00582	-0.000367	-0.00149	0.004749
28	0.2474	0.002343	-9.2	-0.72	4.2	0.6434	0.088454	-0.001896	4.80E-05	6.60E-05	0.004763
34	105.4	716.5	-5	11.76	6.2	0.8009	0.096774	0.006917	-0.000568	-0.001913	0.005548
29	0.2484	0.002343	-10.1	-0.77	5.07	0.6416	0.097009	-0.001544	-8.30E-05	-0.000157	0.005576
34	105.6	718.9	-5	13.05	5.9	0.8032	0.111263	0.008393	-0.000541	-0.002412	0.006759
30	0.2479	0.002342	-11.1	-0.88	6.08	0.6437	0.111571	-0.001336	5.10E-05	-5.40E-05	0.006781
35	105.1	717.4	-7.5	6.27	2.7	0.8014	0.019362	0.000607	-0.000129	5.50E-05	0.001906
13	0.2472	0.002345	-8.4	-0.13	0.9	0.6425	0.019276	-0.001925	0.00012	-0.000619	0.001907
35	105.2	719.2	-7.5	7.77	5.2	0.8029	0.039625	0.003428	-0.000464	-0.00023	0.002703
14	0.2468	0.002343	-9.3	-0.37	1.82	0.644	0.039733	-0.001773	-0.000107	-0.000397	0.00274
35	105.3	715.5	-7.5	9.51	6.6	0.7997	0.059472	0.006387	-0.000531	-0.000536	0.003805
15	0.2485	0.002342	-10.7	-0.48	3.15	0.6406	0.059796	-0.00143	-3.0E-05	-0.000609	0.003842
35	105.5	718.5	-7.5	10.27	6.9	0.8025	0.069206	0.007923	-0.000414	-0.000727	0.004441
16	0.2479	0.002341	-11.2	-0.48	3.72	0.6431	0.069648	-0.001178	0.000169	-0.000922	0.004457
35	105.4	721.7	-7.5	11.22	6.8	0.8051	0.079364	0.009537	-0.000574	-0.001035	0.00522
17	0.2466	0.002341	-12	-0.55	4.48	0.6459	0.07993	-0.000903	0.000112	-0.000944	0.00525
35	105.4	719.7	-7.5	11.95	6.8	0.8032	0.08846	0.010747	-0.000546	-0.001171	0.005866
18	0.2471	0.00234	-12.6	-0.55	5.08	0.644	0.089106	-0.000891	0.000225	-0.000696	0.005887

C-2

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
35	105.6	717	-7.5	12.96	6.4	0.8009	0.097917	0.012723	-0.000596	-0.001609	0.006928
19	0.2486	0.002339	-13.5	-0.6	6.02	0.6415	0.09874	-0.000167	0.000314	-0.001496	0.006946
35	105.7	714.9	-7.5	13.82	6.2	0.7991	0.107331	0.014236	-0.000561	-0.001892	0.007854
20	0.2495	0.002338	-14.3	-0.6	6.8	0.6395	0.108271	0.000105	0.000469	-0.001304	0.00786
17	120.2	717.6	0	3.44	3.2	0.8276	0.019021	-0.001266	-0.000337	-0.000726	0.001307
26	0.2828	0.002366	-0.1	-0.18	0.07	0.6452	0.01902	-0.00127	-0.000337	-0.000256	0.001307
17	120.3	718	0	4.86	6.6	0.8278	0.040294	-0.001163	4.50E-05	-0.000908	0.001387
27	0.2829	0.002364	-1.1	-0.18	1.07	0.6453	0.040293	-0.00117	4.50E-05	0.000216	0.001387
17	120.3	716.9	0	6.53	8	0.8266	0.057876	-0.000847	-4.0E-06	-0.001197	0.0018
28	0.2832	0.002364	-2.5	-0.38	2.47	0.6442	0.057876	-0.000857	-4.0E-06	-0.000258	0.0018
17	120.5	717.6	0	7.4	8.7	0.8273	0.068767	-0.000575	3.60E-05	-0.001542	0.002079
29	0.2833	0.002362	-3.2	-0.46	3.16	0.6446	0.068766	-0.000587	3.60E-05	-0.000653	0.002079
17	120.2	716.5	0	8.27	8.8	0.8258	0.079284	-0.000443	-2.50E-05	-0.001895	0.002412
30	0.2832	0.002362	-3.8	-0.61	3.82	0.6436	0.079284	-0.000457	-2.40E-05	-0.000716	0.002412
17	120.4	715.9	0	9.99	8.6	0.8255	0.096952	0.000608	0.000148	-0.002444	0.003366
31	0.2839	0.002361	-5.6	-0.61	5.56	0.6429	0.096952	0.000591	0.000149	-0.001488	0.003366
17	120.4	717.8	0	11.63	7.1	0.8272	0.109421	0.001397	0.000286	-0.00277	0.004753
32	0.283	0.002362	-7.1	-0.61	7.07	0.6447	0.109421	0.001378	0.000286	-0.001319	0.004753
14	120.6	717.4	-5	9.58	8.3	0.8262	0.067083	0.005442	-0.000343	-0.000873	0.003811
9	0.2838	0.002344	-9	-0.2	3.96	0.6435	0.067302	-0.000425	-9.0E-06	-0.000693	0.003826
14	120.3	717.2	-5	5.49	2.8	0.8231	0.017975	5.10E-05	-0.000222	-0.000517	0.001834
17	0.2832	0.002331	-5.6	-0.1	0.64	0.6414	0.017911	-0.001515	-6.10E-05	-0.000614	0.001846

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL A1S	L/DR B1S	MAT MTIP	CLRH/S CLRH/S	CXRH/S CXRH/S	CMXH/S CMXH/S	CYRH/S CMYH/S	CMZH/S CPS
14	120.4	716.8	-5	7.12	5.2	0.8231	0.03652	0.001929	-9.70E-05	-0.000679	0.002522
18	0.2835	0.002333	-6.8	-0.1	1.76	0.6413	0.036549	-0.001261	0.000123	-0.000748	0.002521
14	120.2	718.5	-5	8.96	7	0.8245	0.0582	0.004001	-0.000143	-0.000972	0.003467
19	0.2824	0.002333	-8.1	-0.21	3.11	0.6429	0.058327	-0.001086	0.00016	-0.000511	0.003466
15	120.5	716.2	-5	9.74	7.7	0.8286	0.067902	0.004939	-0.000589	-0.000779	0.003876
8	0.2841	0.00237	-8.9	-0.31	3.89	0.6452	0.068074	-0.000998	-0.000249	-0.000463	0.003913
15	120.6	719.7	-5	10.65	7.7	0.8315	0.076196	0.006304	-0.000375	-0.001	0.00456
9	0.2829	0.002368	-9.8	-0.32	4.78	0.6481	0.076456	-0.000361	2.40E-05	-0.001185	0.004575
15	120.8	717.9	-5	12.54	7.3	0.8296	0.09558	0.008567	-0.00035	-0.001705	0.006122
10	0.284	0.002365	-11.4	-0.32	6.35	0.6461	0.095963	0.000204	0.000185	-0.000971	0.006129
15	120.8	716.1	-5	13.72	6.8	0.8279	0.106376	0.010301	-0.000252	-0.002037	0.007394
11	0.2846	0.002364	-12.6	-0.31	7.63	0.6444	0.106869	0.000991	0.000394	-0.001056	0.007387
35	120.1	716.9	-7.5	6.8	2.5	0.8229	0.017361	-1.50E-05	-0.000198	-0.000149	0.001947
21	0.2828	0.002328	-8.7	0.05	1.24	0.6415	0.017211	-0.002281	5.80E-05	-0.00134	0.001956
35	120.2	718.5	-7.5	8.29	5.2	0.8243	0.037971	0.002858	-0.000537	-0.000345	0.002839
22	0.2825	0.002327	-9.6	-0.16	2.1	0.6428	0.038019	-0.002123	-0.000162	-0.00047	0.002885
35	120.4	718.6	-7.5	10.19	6.9	0.8245	0.060183	0.006266	-0.000632	-0.000699	0.004184
23	0.2828	0.002326	-11.3	-0.23	3.82	0.6427	0.060486	-0.001643	-8.0E-05	-0.000861	0.00423
35	120.4	716.9	-7.5	10.88	7	0.8229	0.065447	0.007518	-0.00056	-0.00092	0.004749
24	0.2836	0.002325	-12.1	-0.23	4.59	0.6411	0.065869	-0.001089	6.40E-05	-0.001776	0.004781
35	120.6	716.7	-7.5	11.89	7.3	0.8229	0.076989	0.00928	-0.000649	-0.001193	0.005606
25	0.284	0.002325	-12.8	-0.23	5.33	0.6409	0.077541	-0.000849	8.80E-05	-0.001687	0.005643

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
35	120.5	717.9	-7.5	12.77	7.1	0.8237	0.087767	0.010306	-0.000675	-0.001344	0.006404
26	0.2832	0.002323	-13.4	-0.23	5.85	0.6419	0.088361	-0.001238	0.000167	-0.000467	0.006437
35	120.7	718.4	-7.5	13.74	6.9	0.8243	0.097324	0.012141	-0.000746	-0.00183	0.007434
27	0.2836	0.002322	-14.3	-0.3	6.81	0.6422	0.098077	-0.000666	0.000231	-0.001178	0.007467
16	120.4	717.1	-10	7.78	3.1	0.8247	0.020758	0.001699	-0.000554	0.000102	0.002301
27	0.2833	0.002348	-11.3	-0.08	1.28	0.6427	0.020738	-0.001931	-0.000145	-0.000394	0.002363
16	120.5	719.1	-10	9.42	5.3	0.8266	0.03867	0.005201	-0.000646	7.0E-06	0.003479
28	0.2829	0.002346	-12.6	-0.08	2.58	0.6444	0.038986	-0.001593	-3.20E-05	-0.000214	0.003538
16	120.6	717.7	-10	11.23	6.6	0.8254	0.057571	0.009181	-0.000902	-0.000351	0.005006
29	0.2836	0.002346	-14.2	-0.16	4.17	0.643	0.058291	-0.000956	-1.90E-05	-0.000859	0.005087
16	120.6	717.8	-10	12.12	7.3	0.8254	0.070214	0.011418	-0.000979	-0.000612	0.005886
30	0.2835	0.002345	-14.7	-0.2	4.72	0.6431	0.07113	-0.000948	5.80E-05	-0.000454	0.005967
16	120.7	718.8	-10	13.08	6.9	0.8262	0.077996	0.013372	-0.001277	-0.001049	0.006855
31	0.2833	0.002345	-15.7	-0.29	5.7	0.6438	0.079133	-0.000375	-6.80E-05	-0.001073	0.006973
41	75.8	717	-10	13.8	4.1	0.7531	0.115856	0.020938	-0.000908	-0.001889	0.008724
19	0.1785	0.00234	-15.4	-1.45	5.36	0.639	0.117732	0.000502	0.000621	-0.001433	0.008749
41	120.4	716.7	-10	12.08	7	0.8211	0.069323	0.010777	-0.001172	-0.000358	0.005739
20	0.2836	0.002314	-14.6	-0.24	4.64	0.6397	0.070141	-0.001424	-0.000157	-0.000315	0.005856
41	120.6	716.8	-10	13.08	6.8	0.8214	0.076047	0.012922	-0.001087	-0.000639	0.006751
21	0.2839	0.002314	-15.7	-0.24	5.71	0.6397	0.077136	-0.00048	0.000102	-0.001796	0.006837
41	120.5	717.3	-10	14.79	6.9	0.8216	0.098619	0.017011	-0.001389	-0.001257	0.008751
22	0.2837	0.002313	-17.2	-0.24	7.2	0.6401	0.100075	-0.000372	0.000151	-0.001148	0.008859

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
41	120.5	717.3	-10	15.72	6.4	0.8216	0.105443	0.018986	-0.00135	-0.001546	0.009969
23	0.2835	0.002313	-18.1	-0.23	8.14	0.6401	0.107138	0.000388	0.000402	-0.001605	0.010052
28	140.4	717	0	7.82	7.7	0.8524	0.066591	-0.00179	-0.000246	-0.001587	0.002248
38	0.3304	0.00225	-3.6	-0.14	3.58	0.6407	0.066591	-0.00179	-0.000246	-0.00108	0.002248
14	140.4	717.6	-5	10.62	7.8	0.8557	0.066738	0.004906	-0.000699	-0.001153	0.004409
10	0.3302	0.002322	-9.6	0	4.58	0.6433	0.066912	-0.000929	-0.000312	-0.000808	0.004454
14	140.2	716	-5	6.19	3.2	0.8536	0.019231	-0.000175	-0.000645	-0.000301	0.001895
11	0.3306	0.002319	-5.8	0.11	0.77	0.6415	0.019142	-0.001851	-0.000477	-0.000357	0.001944
14	140.3	717.2	-5	7.86	6.1	0.8543	0.039613	0.001831	-0.000533	-0.000694	0.002725
12	0.3301	0.002318	-7.1	0.11	2.12	0.6423	0.039621	-0.001628	-0.000293	-0.00051	0.002761
14	140.4	716.7	-5	9.71	7.5	0.8539	0.058302	0.003731	-0.000574	-0.001071	0.003771
13	0.3307	0.002316	-8.7	0.1	3.71	0.6417	0.058405	-0.001364	-0.000243	-0.000411	0.003807
14	140.3	716.9	-5	10.65	7.7	0.8538	0.068215	0.004607	-0.000523	-0.001234	0.004409
14	0.3304	0.002316	-9.5	0.1	4.49	0.6418	0.068357	-0.001356	-0.000137	-4.40E-05	0.004438
14	140.3	718.2	-5	11.63	7.7	0.8548	0.07728	0.005961	-0.000381	-0.001469	0.005241
15	0.3297	0.002316	-10.5	0.1	5.47	0.6428	0.077505	-0.000797	7.70E-05	-0.000879	0.005255
14	140.4	716.5	-5	13.84	7.2	0.8533	0.096197	0.008782	-0.000426	-0.00214	0.007326
16	0.3307	0.002315	-12.6	0.11	7.57	0.6413	0.096596	0.000365	0.000215	-0.001434	0.007336
35	140.5	717.5	-7.5	7.64	2.9	0.8539	0.020276	-0.000261	-0.000546	-0.000252	0.002167
28	0.3306	0.002306	-8.8	0.21	1.31	0.6417	0.020069	-0.002905	-0.000259	-0.000858	0.00222
35	140.5	716.2	-7.5	9.27	5.1	0.8524	0.038357	0.002349	-0.000653	-0.000449	0.003206
29	0.3312	0.002304	-10	0.21	2.52	0.6403	0.038335	-0.002677	-0.000229	-0.000687	0.003264

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	LDR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
35	140.6	716.7	-7.5	11.19	7	0.8527	0.060364	0.005699	-0.000751	-0.000889	0.004692
30	0.3311	0.002302	-11.8	0.15	4.29	0.6406	0.060592	-0.002229	-0.000132	-0.000819	0.00475
35	140.8	716.9	-7.5	12.25	7	0.853	0.068919	0.007212	-0.000837	-0.001098	0.00558
31	0.3316	0.002301	-12.8	0.15	5.34	0.6406	0.06927	-0.001846	-0.000102	-0.00111	0.005642
39	140.5	719.3	-7.5	11.96	6.4	0.855	0.066214	0.006811	-0.000924	-0.000694	0.005602
12	0.3298	0.002313	-12.4	0.11	4.95	0.6429	0.066537	-0.00189	-0.000185	-0.001161	0.005675
39	140.6	717.1	-7.5	13.04	6.6	0.8529	0.076903	0.00846	-0.001072	-0.001103	0.006559
13	0.331	0.002312	-13.5	0.11	5.99	0.6408	0.07735	-0.00165	-0.000207	-0.001193	0.006642
39	140.8	716.9	-7.5	14.15	6.6	0.8527	0.086616	0.010411	-0.000883	-0.001367	0.00773
14	0.3314	0.00231	-14.7	0.08	7.16	0.6404	0.087234	-0.000984	0.000134	-0.001866	0.007779
41	140.1	716.9	-10	8.91	2.8	0.8513	0.020232	0.000582	-0.000843	0.000356	0.002481
24	0.33	0.002298	-11.8	0.22	1.84	0.6401	0.020026	-0.00294	-0.000399	-0.000844	0.002589
41	140.3	717.1	-10	10.61	4.7	0.8515	0.0372	0.004031	-0.001192	-3.90E-05	0.003786
25	0.3303	0.002296	-13.4	0.11	3.36	0.6401	0.037334	-0.00249	-0.000516	-0.001407	0.003935
41	140.4	716.9	-10	12.41	6.4	0.8513	0.058604	0.008102	-0.00142	-0.000364	0.005529
26	0.3306	0.002295	-14.8	0.1	4.76	0.6398	0.05912	-0.002197	-0.000439	-0.000709	0.005691
41	140.5	718.3	-10	13.4	6.8	0.8526	0.068302	0.010101	-0.001471	-0.000577	0.006518
27	0.3302	0.002294	-15.7	0.1	5.66	0.641	0.069019	-0.001914	-0.000317	-0.000874	0.006675
41	140.6	717.2	-10	14.39	7	0.8517	0.07909	0.012228	-0.001525	-0.000878	0.007647
28	0.3308	0.002295	-16.6	0.1	6.56	0.64	0.080012	-0.001692	-0.000174	-0.000765	0.007796
41	140.6	720	-10	15.43	6.7	0.8542	0.087167	0.01439	-0.001553	-0.00118	0.008922
29	0.3297	0.002294	-17.6	0.1	7.62	0.6424	0.088342	-0.000965	1.90E-05	-0.00175	0.009056

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	COLL AIS	L/DR BIS	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
40	150.2	716	-5	8.54	5.1	0.8709	0.038634	0.000955	-0.000502	-6.70E-05	0.002978
34	0.354	0.002329	-7.6	0.35	2.63	0.6432	0.03857	-0.002416	-0.000241	-0.000876	0.003011
40	150.4	717.3	-5	10.28	6.7	0.8719	0.057901	0.002771	-0.000568	-0.000713	0.00401
35	0.3539	0.002327	-8.8	0.35	3.81	0.644	0.057922	-0.002286	-0.000216	-0.000724	0.004044
40	150.5	717.6	-5	11.42	7	0.872	0.068443	0.0039	-0.000586	-0.001024	0.004831
36	0.354	0.002325	-9.8	0.31	4.84	0.644	0.068523	-0.00208	-0.000163	-0.000734	0.004864
40	150.6	718.7	-5	12.28	7.2	0.8729	0.079649	0.004877	-0.000701	-0.001471	0.005594
37	0.3537	0.002323	-10.6	0.3	5.63	0.6448	0.079771	-0.002083	-0.000211	-0.000145	0.005634
40	160.2	717.4	-5	8.98	4.8	0.8866	0.040771	0.000565	-0.000889	-0.000725	0.003367
38	0.3769	0.002313	-7.8	0.25	2.82	0.6439	0.040665	-0.002991	-0.000592	-0.000694	0.003431
40	160.1	715.7	-5	10.79	6	0.8847	0.05707	0.002433	-0.000807	-0.001247	0.004482
39	0.3776	0.002312	-9.4	0.26	4.36	0.6422	0.057065	-0.00255	-0.000413	-0.001348	0.004535
40	160.3	718.3	-5	11.89	6.4	0.887	0.068084	0.003547	-0.000785	-0.001588	0.005317
40	0.3767	0.00231	-10.2	0.25	5.23	0.6443	0.068134	-0.002401	-0.000318	-0.00123	0.005366
40	160.3	716.6	-5	12.87	6.7	0.8852	0.079403	0.004586	-0.000856	-0.002014	0.00614
41	0.3775	0.002309	-11.1	0.26	6.07	0.6426	0.079501	-0.002352	-0.000317	-0.000805	0.006192
40	170.2	716.7	-5	9.3	4	0.8999	0.037729	-0.000216	-0.000261	-0.000877	0.003683
42	0.4007	0.002296	-7.9	0.65	2.87	0.6424	0.037566	-0.003504	6.10E-05	-0.001346	0.003692
40	170.3	717.9	-5	11.38	5.2	0.9009	0.057378	0.001841	-0.00065	-0.001438	0.005111
43	0.4004	0.002294	-9.6	0.45	4.55	0.6433	0.05732	-0.003167	-0.000202	-0.001189	0.005148

Appendix D—Flight Correlation Static Data

Performance data for simulated flight conditions with prescribed hub moment trim for two different thrust conditions are presented in the following tables. Data are grouped in terms of constant rotor thrust as a function of increasing tunnel velocity. The rotor control positions presented in these tables are based on the blade pitch transducer in the rotating system. The test logs presented in Appendix A should be consulted for identification of the test conditions presented in these tables. No wall corrections have been applied to these data. Definition of the measurements in the following tables is presented below.

Nomenclature

ALPHA	angle of rotor shaft from vertical, positive shaft tilt aft, deg
ALPHCP	angle of attack of control axis relative to vertical, positive shaft tilt aft, ALPHCP = (ALPHA - B1S), deg
c	rotor blade chord length, ft
CLRH/S	ratio of rotor lift force coefficient to solidity, wind axis, lift/ $\rho S(\Omega R)^2$
CLRHS/S	ratio of rotor lift force coefficient to solidity, shaft axis, lift/ $\rho S(\Omega R)^2$
CMXH/S	ratio of rotor rolling moment coefficient to solidity, wind axis, roll moment/ $\rho S(\Omega R)^2 R$
CMXHS/S	ratio of rotor rolling moment coefficient to solidity, shaft axis, roll moment/ $\rho S(\Omega R)^2 R$
CMYH/S	ratio of rotor pitching moment coefficient to solidity, wind axis, pitch moment/ $\rho S(\Omega R)^2 R$
CMZH/S	ratio of rotor yawing moment coefficient to solidity, wind axis, yaw moment/ $\rho S(\Omega R)^2 R$
CP/S	ratio of rotor power coefficient to solidity, rotor power/ $\rho S(\Omega R)^3$

CS	speed of sound, ft/sec
CXRH/S	ratio of rotor propulsive force coefficient to solidity, wind axis, -drag/ $\rho S(\Omega R)^2$
CXRHS/S	ratio of rotor propulsive force coefficient to solidity, shaft axis, -drag/ $\rho S(\Omega R)^2$
CYRH/S	ratio of rotor side force coefficient to solidity, wind axis, side/ $\rho S(\Omega R)^2$
L/DR	rotor lift to drag ratio
MAT	rotor advancing tip Mach number, $(\Omega R + V)/CS$
MTIP	rotor rotational tip Mach number, $\Omega R/CS$
P	per rev
POINT	point number
R	rotor radius, ft
RHO	air density, ρ , slug/ft ³
RUN	run number
S	rotor reference area, $4cR$, ft ²
THETA	rotor collective (rotating frame), $r/R = 0.07$, deg
THETA1C	rotor cyclic pitch, 1P cosine part (rotating frame), deg
THETA1S	rotor cyclic pitch, 1P sine part (rotating frame), deg
V	tunnel velocity, ft/sec
VKTS	tunnel velocity, V, knots
VTIP	rotor tip speed, ft/sec
V/OR	advance ratio, μ , $V/\Omega R$
σ	rotor solidity, $S/\pi R^2$
Ω	rotor rotation frequency, rad/sec

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	THETA THETAIC	L/D THETAIS	MAT MTIP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
43 5	42.3 0.0995	717.5 0.002341	-2.5 -3.8	8.36 2.69	2.4 -0.97	0.7027 0.6392	0.070106 0.070122	0.001898 -0.001162	-0.000699 -0.000563	-0.001454 -1.50E-05	0.0031 0.003128
43 6	42.4 0.0998	716.9 0.00234	-2.5 -4.5	8.4 2.79	2.4 -1.62	0.7021 0.6385	0.069644 0.069701	0.002818 -0.000223	-0.000439 -0.000298	-0.001393 -0.001451	0.003219 0.003235
43 7	42.3 0.0995	716.9 0.002339	-2.5 -3.4	8.34 2.43	2.4 -0.62	0.7018 0.6383	0.070555 0.070548	0.001385 -0.001694	-0.000434 -0.000301	-0.001217 0.001082	0.00304 0.003056
43 8	63.6 0.1497	717 0.002332	-3.3 -4.9	8.15 2.05	4.2 -1.41	0.7342 0.6386	0.069279 0.069324	0.002775 -0.001218	-0.001103 -0.000938	-0.001286 0.000432	0.002824 0.002883
43 9	63.7 0.1501	716 0.002331	-3.3 -6	8.33 2.14	4.2 -2.45	0.7332 0.6375	0.069935 0.07006	0.004186 0.000153	-0.000565 -0.000387	-0.001209 -0.001901	0.003084 0.003112
43 10	63.6 0.1498	716.8 0.00233	-3.3 -4.4	8.03 1.72	4.3 -1.04	0.7338 0.6382	0.069508 0.069528	0.002353 -0.001652	-0.000556 -0.000396	-0.001011 0.001216	0.002752 0.00278
43 11	84.8 0.2004	714.3 0.002322	-4.8 -7.4	8.98 1.59	6 -2.48	0.7638 0.6363	0.071418 0.071589	0.005047 -0.000946	-0.000981 -0.0007	-0.001142 -0.000291	0.003319 0.003389
43 12	84.9 0.2009	713.5 0.002321	-4.8 -8.1	9.14 1.73	5.8 -3.11	0.7632 0.6355	0.070386 0.070618	0.005715 -0.000195	-0.000931 -0.000632	-0.001231 -0.001603	0.003537 0.003602
43 13	84.9 0.2004	714.7 0.002321	-4.8 -6.6	8.64 1.31	5.9 -1.76	0.7641 0.6365	0.069744 0.069815	0.003772 -0.002077	-0.000924 -0.000664	-0.001052 0.001517	0.003065 0.003131
43 14	106.3 0.2498	718.5 0.002308	-7.1 -11.2	10.49 1.37	6.8 -3.9	0.8001 0.6402	0.070454 0.070894	0.00793 -0.000839	-0.00145 -0.000894	-0.001239 -0.001039	0.00441 0.004556
43 15	106.4 0.2499	718.5 0.002308	-7.1 -11.2	10.43 1.41	6.6 -3.95	0.8001 0.6401	0.068332 0.068775	0.007821 -0.000685	-0.001462 -0.000909	-0.001254 -0.001569	0.004387 0.004534

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	THETA THETAIC	LDR THETAIS	MAT MTIP	CLRH/S CLRH/S	CXRH/S CXRH/S	CMXH/S CMXH/S	CYRH/S CMYH/S	CMZH/S CP/S
43	106.3	719.9	-7.1	9.98	7	0.8013	0.070138	0.006253	-0.001329	-0.001062	0.003918
16	0.2492	0.002308	-9.7	1.01	-2.61	0.6414	0.070373	-0.002464	-0.000834	0.001282	0.004052
43	131.4	714.1	-9.6	13.05	6.9	0.8341	0.069047	0.011199	-0.002884	-0.001821	0.006211
17	0.3106	0.002288	-15.9	1.72	-5.92	0.6364	0.069947	-0.000473	-0.001808	-0.003038	0.006605
46	40.3	717.7	-2.5	8.04	2.2	0.7009	0.069811	0.002059	0.000138	-0.001688	0.003274
25	0.0949	0.00235	-4.1	2.55	-1.31	0.6401	0.069834	-0.000988	0.000281	-0.000478	0.003265
46	40.3	718.1	-2.5	7.94	2.2	0.7011	0.069433	0.000962	-0.000473	-0.001866	0.003109
26	0.0948	0.002349	-3.2	2.56	-0.37	0.6403	0.069409	-0.002067	-0.000336	0.001173	0.003127
46	40.3	718.1	-2.5	7.93	2.1	0.701	0.068538	0.00175	-0.000428	-0.001851	0.003173
27	0.0948	0.002349	-3.8	2.7	-0.98	0.6403	0.068549	-0.001242	-0.00029	-8.20E-05	0.003189
46	61.2	716.4	-3.3	7.95	3.9	0.7315	0.070446	0.003143	9.0E-06	-0.001521	0.00309
22	0.1442	0.002344	-5.5	1.9	-2.01	0.6393	0.07051	-0.000917	0.000187	-0.000741	0.003085
46	61.2	717.4	-3.3	7.69	3.9	0.7323	0.070509	0.001775	-0.000563	-0.001674	0.00281
23	0.144	0.002344	-4.3	1.86	-0.83	0.6401	0.070494	-0.002286	-0.0004	0.001461	0.002837
46	61.2	716.3	-3.3	7.75	3.8	0.7314	0.069091	0.002562	-0.000522	-0.001684	0.002936
24	0.1443	0.002344	-4.9	2.01	-1.45	0.6392	0.069123	-0.001419	-0.000352	-2.60E-05	0.002962
46	83.2	715.9	-4.8	8.63	5.5	0.7649	0.069793	0.00498	-7.10E-05	-0.001298	0.003485
19	0.1962	0.002337	-7.7	1.32	-2.86	0.6394	0.069965	-0.000878	0.000221	-0.000794	0.003478
46	83.3	714.4	-4.8	8.23	5.6	0.7636	0.069415	0.003439	-0.000869	-0.001582	0.003065
20	0.1967	0.002337	-6.4	1.37	-1.55	0.6381	0.069459	-0.002381	-0.000609	0.001526	0.003127
46	83.2	713.1	-4.8	8.59	5.5	0.7624	0.069882	0.004668	-0.000554	-0.001531	0.003407
21	0.197	0.002337	-7.4	1.51	-2.55	0.6369	0.070028	-0.001196	-0.000267	-0.000586	0.003441

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	THETA THETAIC	LDR THETAIS	MAT MTP	CLRH/S CLRHS/S	CXRH/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYHS/S	CMZH/S CP/S
46 16	108 0.2537	718.5 0.002325	-7.1 -11.3	10.22 0.91	6.8 -4.22	0.8052 0.6423	0.068198 0.068647	0.007863 -0.000627	-0.000348 0.000216	-0.000905 -0.001376	0.004539 0.004547
46 17	107.6 0.2535	716.4 0.002325	-7.1 -9.9	9.77 1.09	7.3 -2.8	0.8027 0.6404	0.071439 0.071683	0.00641 -0.002469	-0.001368 -0.000865	-0.001427 0.001452	0.003981 0.004119
46 18	107.9 0.2541	716.9 0.002325	-7.1 -11.3	10.22 1.35	6.9 -4.03	0.8037 0.6408	0.069727 0.070172	0.007929 -0.00075	-0.001158 -0.000594	-0.001552 -0.001595	0.004487 0.004596
46 13	132.7 0.314	713.4 0.002315	-9.6 -15.2	12.58 0.72	7.4 -5.55	0.8402 0.6394	0.069452 0.070267	0.010715 -0.001017	-0.001249 -0.000198	-0.00068 -0.00118	0.006195 0.006316
46 14	132.6 0.3133	714.4 0.002312	-9.6 -13.9	12.04 0.94	7.6 -4.25	0.8402 0.6397	0.069642 0.070222	0.009326 -0.002419	-0.002152 -0.001203	-0.001118 0.000796	0.005514 0.005795
46 15	132.8 0.3134	715.1 0.002309	-9.6 -15.9	12.75 1.64	7.4 -6	0.8406 0.6401	0.07058 0.071487	0.01136 -0.000569	-0.002948 -0.001882	-0.00189 -0.002242	0.006143 0.006548
46 28	44.2 0.1039	717.2 0.002348	-1.7 -3.8	9.57 2.83	2.3 -1.76	0.706 0.6395	0.090382 0.090388	0.001548 -0.001134	0.000286 0.000413	-0.002024 -0.000143	0.004273 0.004262
46 29	44.1 0.1038	718 0.002347	-1.7 -3	9.4 2.99	2.3 -0.89	0.7065 0.6401	0.090034 0.090002	0.000267 -0.002404	-0.000508 -0.000389	-0.002487 0.001372	0.004021 0.004034
46 30	44.2 0.104	717.8 0.002347	-1.7 -3	9.38 3.24	2.3 -0.9	0.7065 0.64	0.089292 0.089265	0.00042 -0.002229	-0.00106 -0.000939	-0.002857 0.001027	0.004054 0.004084
46 31	56.4 0.1325	718.6 0.002344	-2.5 -4.8	9.25 2.62	3.3 -2	0.7258 0.6408	0.088473 0.088511	0.002801 -0.001061	-0.000484 -0.000312	-0.002088 -0.000283	0.003924 0.003941
46 32	56.4 0.1329	716.3 0.002343	-2.5 -3.8	9.09 2.38	3.3 -1.09	0.7237 0.6388	0.088584 0.088553	0.001217 -0.002648	-0.000604 -0.000442	-0.001979 0.001833	0.003691 0.003714

RUN POINT	VKTS V/OR	VTIP RHO	ALPHA ALPHCP	THETA THETAIC	L/DR THETAIS	MAT MTIP	CLRH/S CLRHS/S	CXRHS/S CXRHS/S	CMXH/S CMXHS/S	CYRH/S CMYH/S	CMZH/S CP/S
46	56.4	716.2	-2.5	9.3	3.3	0.7236	0.089529	0.002441	-0.000557	-0.002118	0.003928
33	0.133	0.002343	-4.6	2.6	-1.82	0.6386	0.08955	-0.001466	-0.000385	0.000264	0.003948
46	82.5	717.1	-3.9	9.88	5.3	0.7643	0.08908	0.005388	-0.000379	-0.001516	0.004295
34	0.1942	0.002334	-7.5	1.79	-3.49	0.64	0.08924	-0.000684	-8.60E-05	-0.000779	0.004311
46	82.6	716.3	-3.9	9.47	5.4	0.7635	0.088987	0.003214	-0.000756	-0.001621	0.003768
35	0.1946	0.002333	-6.1	1.62	-2.11	0.6392	0.088999	-0.002846	-0.000498	0.002029	0.003811
46	82.7	717.5	-3.9	9.75	5.3	0.7648	0.088277	0.004997	-0.001165	-0.002111	0.004158
36	0.1944	0.002333	-7.3	2.1	-3.2	0.6403	0.088412	-0.001018	-0.00088	-0.000521	0.004228

Appendix E—Hover Dynamic Data

The hover dynamic structural loads are presented in the following tables. For each of the measurements tabulated, the time-averaged mean, root-mean-square value, and the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2) are presented. Data

are organized and presented in the same run and point order as in Appendix B. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

RUN/POINT 12/ 5	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	-4203.4	-2261.4	-607.2	164.8	197.8	12.6					
	RMS	310.1	187.3	99.4	101.2	99.3	78					
	1/2 P-P	583.3	336.6	228.5	291.4	268.8	229.9					
RUN/POINT 12/ 5	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$			
	MEAN	-8.5	-76.7	3.3	-8916.4	-3077.8	-276.8					
	RMS	153.8	193.1	182.7	653.5	289	14.5					
	1/2 P-P	314.7	545.1	471.4	1188.2	722.7	38.2					
RUN/POINT 12/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$			
	MEAN	-4398.1	-6751.3	-4352.5	-7105.9	-3921.6	-1428.3					
	RMS	324.3	658.7	327.3	721	589	404.3					
	1/2 P-P	599.6	1178.4	584.4	1303.5	1044.2	766.2					
RUN/POINT 12/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1			
	MEAN	-2031.4	-274.4	-4140.3	-8242.4	-326.8	-62.1					
	RMS	350.3	17.8	322.5	697.4	14.2	8.7					
	1/2 P-P	834.5	42.5	583.9	1254.6	38.3	18.7					
RUN/POINT 12/ 6	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	-4123.6	-2211.2	-587.6	176.2	205.9	13					
	RMS	199	118.6	68.5	76.9	75	69.4					
	1/2 P-P	403.1	225.9	175	193.8	192.9	194.2					

RUN/POINT		Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
12/ 6	MEAN	-21	-87	9.4	-8819.9	-3052.3	-285.2
	RMS	104.8	139.4	142.2	493.3	225.6	16
1/2 P-P		267.8	341.1	362.6	997.7	610.3	41.1
RUN/POINT		Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
12/ 6	MEAN	-4329.3	-6670.5	-4287.4	-7023.5	-3849.2	-1388
	RMS	207.1	521.2	213.8	574.7	474	321.4
1/2 P-P		400.3	998.6	420.5	1032.3	859.5	700.4
RUN/POINT		Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
12/ 6	MEAN	-1984	-284.8	-4063.1	-8151.3	-335.6	-73.5
	RMS	272.7	17.3	204.4	541.7	15	10.2
1/2 P-P		651.8	40.7	388.5	1051.8	40	22.2
RUN/POINT		Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
12/ 7	MEAN	-3529.2	-1839.3	-442.1	230.4	244.5	37.3
	RMS	394.5	237.1	107.2	75.9	74.7	96.6
1/2 P-P		720.5	418.9	229	214.6	219.1	277.1
RUN/POINT		Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
12/ 7	MEAN	-11.4	-90.9	0.4	-8168.6	-2996.3	-318.6
	RMS	129.1	159.2	138.9	845.7	281.4	15.3
1/2 P-P		318.8	389	330.1	1450.4	817.5	37.4

RUN/POINT 12/ 7	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-3727.3	-6059.3	-3679	-6409.3	-3299.7	-1156.8
RMS	400.1	842.4	406.2	923.3	755.6	499.7
1/2 P-P	736.5	1382.5	756.1	1479.3	1213.5	879.7
RUN/POINT 12/ 7	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1877.5	-318.6	-3459.1	-7559.5	-374	-88.6
RMS	363.8	18	398.5	880.2	14.3	14.6
1/2 P-P	778	48	725.6	1462.3	38.6	27.4
RUN/POINT 12/ 8	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-2853.2	-1421.2	-279.2	289.6	285	78
RMS	643.7	388.3	171.1	112.8	116.5	109.7
1/2 P-P	1038.1	618.5	312.4	263.4	266.3	311.3
RUN/POINT 12/ 8	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	21.4	-75.9	-34.3	-7534.8	-2938.3	-347.7
RMS	212	249.7	187.5	1277	458.2	16.6
1/2 P-P	486.5	582	455.5	2068.6	1097.3	42.2
RUN/POINT 12/ 8	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-3029	-5452.7	-2991.5	-5765.5	-2718.5	-895.3
RMS	667	1280.3	666.3	1365.5	1104.5	733.5
1/2 P-P	1066.9	1995.5	1082.7	2180.4	1766	1385.4

RUN/POINT 12/ 8	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1751.6	-344.8	-2792.5	-6941.4	-407.2	-95.6
RMS	569.6	18.1	647.4	1290.9	14.7	21.7
1/2 P-P	1247.2	49.3	1051.9	2119.1	40.1	41.2
RUN/POINT 12/ 9	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570
MEAN	-2180.6	-1006.7	-112.1	362.6	344.2	148.7
RMS	350.4	208.3	108.5	124.2	132.5	126.1
1/2 P-P	686.9	404.4	274.9	350	349.7	318.5
RUN/POINT 12/ 9	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	76.7	-42.4	-62.4	-6630.9	-2853.1	-368.2
RMS	253.3	299.3	244	822	443.1	24.2
1/2 P-P	659.8	730.5	633.6	1683.4	1159	71.4
RUN/POINT 12/ 9	Flap Bending, in-lb Blade 2, r/R=0.144	Chord Bending, in-lb Blade 2, r/R=0.144	Flap Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.144	Chord Bending, in-lb Blade 3, r/R=0.174	Chord Bending, in-lb Blade 3, r/R=0.325
MEAN	-2342.2	-4606.3	-2279.6	-4943.5	-2011.3	-599.3
RMS	374.6	876.7	379.9	919.3	746.9	529.6
1/2 P-P	717.4	1693.1	780.7	1773.6	1441.2	1167.4
RUN/POINT 12/ 9	Chord Bending, in-lb Blade 3, r/R=0.450	Torsion, in-lb Blade 3, r/R=0.400	Flap Bending, in-lb Blade 4, r/R=0.144	Chord Bending, in-lb Blade 4, r/R=0.144	Torsion, in-lb Blade 4, r/R=0.400	Pitch Link, lb Blade 1
MEAN	-1610.5	-363.2	-2115.8	-6149	-432	-97.5
RMS	498.9	26	359.4	848.7	22.1	15
1/2 P-P	1295.8	70.6	735.2	1611.2	64.6	29.5

RUN/POINT 12/10	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-1628.6	-660.2	28.4	423.4	389.5	183.9
RMS	336.9	196.1	109.6	156	168.5	171.4
1/2 P-P	784.2	451.9	305.2	442.9	498.1	474.2
RUN/POINT 12/10	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	106.5	-30.2	-112.2	-5894.9	-2785.5	-396.4
RMS	293.9	363.1	310.3	509.5	966.2	23.2
1/2 P-P	843.4	1073.8	998.4	1313.9	2414.9	62.2
RUN/POINT 12/10	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-1810.3	-3882.9	-1729.1	-4217.6	-1363.1	-308.3
RMS	343.6	471.7	325.8	471.6	379.3	678.8
1/2 P-P	818.5	1238.9	752.3	1220.5	1062.1	1753
RUN/POINT 12/10	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1473.8	-393.3	-1577.6	-5493.6	-466.8	-101.3
RMS	954.5	21.6	328.9	519.6	19.5	10.5
1/2 P-P	2516.6	57.4	758.7	1455.8	50.7	24.2
RUN/POINT 12/11	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-784	-138.5	239	518.4	466.4	252.4
RMS	463.8	273.8	127.4	139.7	156.4	226
1/2 P-P	1003.9	565.6	313	381.4	410.3	555.6

RUN/POINT 12/11	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	121.3	-50.5	-199.9	-4811.3	-2642.5	-419.5
RMS	284.6	302.2	248.2	1129.3	707.1	30.4
1/2 P-P	787.4	854.3	757.2	2414.8	1868.5	75.7
RUN/POINT 12/11	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-945.9	-2900	-840.6	-3177.8	-464.9	72.8
RMS	472.2	1152.6	469.6	1205.2	989.7	689.6
1/2 P-P	983.7	2490	973.8	2387.5	1995.5	1905.2
RUN/POINT 12/11	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1282.8	-413	-734.7	-4471.5	-495.6	-97.8
RMS	652.3	29	471.8	1156.2	26.1	15.6
1/2 P-P	1648	77.1	998.6	2323.5	73.6	35.2
RUN/POINT 12/12	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-114	275.5	397.7	578.4	508.2	306.2
RMS	489.7	293.3	147	163.8	179.2	224.3
1/2 P-P	1120	687.6	363.9	453.8	507.1	587
RUN/POINT 12/12	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	121.3	-103.1	-301.2	-3840.5	-2503.2	-445.3
RMS	329.1	364.1	309	1086.1	586.5	35.5
1/2 P-P	835.1	1142.3	1132.7	2755.9	1460.8	91.7

RUN/POINT 12/12	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN		-1983.6		-155.7		-2158.1		432		508.5	
	RMS		984.9		520.9		991.7		803.3		595.9	
	1/2 P-P		2594.8		1112.2		2486.9		2106.4		1603.4	
RUN/POINT 12/12	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN		-438.7		-84.7		-3430.6		-526.4		-94.3	
	RMS		35.2		505.1		1046.7		28.1		16.8	
	1/2 P-P		88.6		1102.8		2847.8		69.5		37.6	
RUN/POINT 12/13	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN		812.7		611.8		672.3		580.6		379.3	
	RMS		335.9		174.1		228.5		249.4		287.4	
	1/2 P-P		746.6		440		592.8		612.9		724.8	
RUN/POINT 12/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN		-80.3		-359.7		-2787.2		-2374.5		-463.4	
	RMS		524.9		427.1		1319.6		1366.3		45	
	1/2 P-P		1396.5		1311.8		2734.3		3216.9		117.8	
RUN/POINT 12/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN		-946.7		752.1		-1367.2		1150.2		808	
	RMS		1303.8		569.5		1251.5		1033.4		1081.5	
	1/2 P-P		2707		1194.5		2651.3		2302.5		2475.4	

RUN/POINT 12/13	Chord Bending, in-lb Blade 3, $\tau/R=0.450$	Torsion, in-lb Blade 3, $\tau/R=0.400$	Flap Bending, in-lb Blade 4, $\tau/R=0.144$	Chord Bending, in-lb Blade 4, $\tau/R=0.144$	Torsion, in-lb Blade 4, $\tau/R=0.400$	Pitch Link, lb Blade 1
MEAN	-938.8	-458.6	776.3	-2479	-553.1	-83.7
RMS	1307.5	40.8	578.6	1293	36.7	16.7
1/2 P-P	2951.6	113.6	1281.9	2675.2	100.5	37.5
RUN/POINT 12/14	Flap Bending, in-lb Blade 1, $\tau/R=0.144$	Flap Bending, in-lb Blade 1, $\tau/R=0.167$	Flap Bending, in-lb Blade 1, $\tau/R=0.215$	Flap Bending, in-lb Blade 1, $\tau/R=0.280$	Flap Bending, in-lb Blade 1, $\tau/R=0.325$	Flap Bending, in-lb Blade 1, $\tau/R=0.570$
MEAN	1493.1	1271.1	785.5	731.5	617.6	398.9
RMS	711.9	437	227.8	196.8	194.6	252.6
1/2 P-P	1459.9	904.8	540.7	529.6	462.1	687
RUN/POINT 12/14	Flap Bending, in-lb Blade 1, $\tau/R=0.725$	Flap Bending, in-lb Blade 1, $\tau/R=0.800$	Flap Bending, in-lb Blade 1, $\tau/R=0.900$	Chord Bending, in-lb Blade 1, $\tau/R=0.144$	Chord Bending, in-lb Blade 1, $\tau/R=0.570$	Torsion, in-lb Blade 1, $\tau/R=0.400$
MEAN	176.4	-93.5	-423.1	-1666.2	-2201	-481.7
RMS	388.8	441.8	376.5	2080.9	2635.4	53.5
1/2 P-P	1095.5	1099.4	1013.4	4171.3	6385.4	131.8
RUN/POINT 12/14	Flap Bending, in-lb Blade 2, $\tau/R=0.144$	Chord Bending, in-lb Blade 2, $\tau/R=0.144$	Flap Bending, in-lb Blade 3, $\tau/R=0.144$	Chord Bending, in-lb Blade 3, $\tau/R=0.144$	Chord Bending, in-lb Blade 3, $\tau/R=0.174$	Chord Bending, in-lb Blade 3, $\tau/R=0.325$
MEAN	1299.7	259.1	1549.8	-662.5	1793.3	1111.2
RMS	701.6	1967.6	704.7	1920.2	1611.6	1945.4
1/2 P-P	1433.4	3700.7	1615	3760	3087.4	5161
RUN/POINT 12/14	Chord Bending, in-lb Blade 3, $\tau/R=0.450$	Torsion, in-lb Blade 3, $\tau/R=0.400$	Flap Bending, in-lb Blade 4, $\tau/R=0.144$	Chord Bending, in-lb Blade 4, $\tau/R=0.144$	Torsion, in-lb Blade 4, $\tau/R=0.400$	Pitch Link, lb Blade 1
MEAN	-758.2	-476.2	1506.3	-1397	-574.4	-76.6
RMS	2443.2	52.4	703.8	1985.7	45	20.2
1/2 P-P	6217.4	132.3	1563.1	3947	118.1	43.4

RUN/POINT 12/15	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	2284.9	1764.1	991.4	835.6	710.7	577.4
RMS	546.3	309.7	127.3	204.7	251.6	432.3
1/2 P-P	1437.3	840.1	371.2	551.3	614.2	975.5
RUN/POINT 12/15	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	314.9	-14.5	-469.7	-660.2	-2173.7	-463.3
RMS	470.9	468.6	373.7	1383.3	2098.6	72.9
1/2 P-P	1259.9	1165.1	1021.4	2950.6	4995.1	194.8
RUN/POINT 12/15	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	2075.1	1202.9	2346.9	313.5	2663.9	1493.3
RMS	579.6	1209.1	574.3	1251.2	1043.8	1485.2
1/2 P-P	1467.8	2811	1468.1	2836.2	2371.6	3681.5
RUN/POINT 12/15	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-609.9	-459.4	2229.7	-419	-568.5	-53.4
RMS	2006.1	71.4	581.9	1336.4	63.6	13.1
1/2 P-P	4834.8	210.4	1365.9	2938.5	172.6	37
RUN/POINT 12/16	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	3158.1	2305.4	1198.4	915.2	759.5	571.1
RMS	618	360.2	168.9	236.4	275.6	325.9
1/2 P-P	1437.6	800.8	426.7	673.8	837.7	745.5

RUN/POINT 12/16	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	283.2	-84.9	-569.1	59.4	-2013.1	-472.7
RMS	487.2	533.5	413.3	1774.7	1454.9	62.5
1/2 P-P	1410.5	1500.4	1193	3747.8	3840.5	163.4
RUN/POINT 12/16	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	2939.2	1785.6	3256.1	1195	3482	1817.2
RMS	620.9	1566.6	619.3	1588.3	1308.1	1193.8
1/2 P-P	1511	3290.1	1491.8	3431.2	2835.9	3081.6
RUN/POINT 12/16	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-424.8	-469.4	3129.6	23.9	-586.9	-39.5
RMS	1434.1	60.1	610.5	1623.6	48.8	14.2
1/2 P-P	3925.4	141.3	1428.7	3515.1	132.1	37.1
RUN/POINT 12/17	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	4150.5	2919.2	1454.8	1032.2	854.5	678.6
RMS	537.4	312.4	173.3	237.7	260.3	340.2
1/2 P-P	1536.7	931.9	481.1	568.9	651	890.5
RUN/POINT 12/17	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	316.2	-73.8	-603.6	1262.7	-1938.1	-464
RMS	498.6	562.6	479.6	1584.1	2086.3	76.7
1/2 P-P	1380.3	1544.3	1336.2	3999.9	4915.7	207.9

RUN/POINT 12/17	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	3914.4	3000.3	4216.9	2527.2	4669.4	2365.6
RMS	582.9	1581	592.5	1535.5	1293.9	1610.8
1/2 P-P	1580.4	4157.2	1663.3	3612.9	3103.5	4331.6
RUN/POINT 12/17	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-169.2	-452.4	3996.3	1351.6	-592.5	-14
RMS	2108.9	74.8	565.2	1617.3	74	18.8
1/2 P-P	5569.5	203.5	1572.1	4336.3	168.5	54.5
RUN/POINT 12/18	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	4762.8	3296.2	1606.8	1093.6	898.7	672
RMS	512.5	289.7	145.6	240.8	281.7	318.9
1/2 P-P	1267.7	726.4	424.8	666.4	762.4	820.5
RUN/POINT 12/18	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	260.1	-178.5	-734.9	2697.6	-1622.3	-454.9
RMS	518.4	603.9	472.6	1160.7	1933.9	74.2
1/2 P-P	1330.1	1477.9	1321.8	3012.2	4164.4	189.2
RUN/POINT 12/18	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	4537.1	4323.4	4987.7	3772	5771.6	2928.2
RMS	532.4	1079.8	526.1	1031.3	852	1257.5
1/2 P-P	1334.1	3023.9	1263.8	2597.9	2319.1	3053.3

RUN/POINT	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
12/18						
MEAN	190.7	-440.4	4650.4	2502.3	-593.4	4.2
RMS	1693.3	79.7	510.7	1172.8	62.9	15.1
1/2 P-P	4010.9	208.8	1313.3	2860.8	162.8	43.4
RUN/POINT						
13/4						
MEAN	-4217.5	-2273	-615.9	160.4	192.8	19
RMS	267.8	163.4	89	87.9	82.1	74
1/2 P-P	491.8	290.3	223.2	236.4	222.1	194.3
RUN/POINT						
13/4						
MEAN	-66.1	-70.2	4.6	-8917.7	-3176	-277.8
RMS	253.9	149.4	165	334.2	195.7	16
1/2 P-P	1507.1	360.6	477.5	760.5	533.2	53.1
RUN/POINT						
13/4						
MEAN	-4413.3	-6810	-4386.4	-7114.2	-3888.5	-1385.5
RMS	266	369.6	279.4	405	322.2	222
1/2 P-P	521.3	741.9	541.5	823.4	659.8	581.8
RUN/POINT						
13/4						
MEAN	-2054.6	-280.2	-4156.7	-8258.1	-330.5	-61.9
RMS	216.4	18.7	275.1	367.2	16.7	11.2
1/2 P-P	580.8	56.5	508.2	771	56.1	20.8

RUN/POINT 13/5	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-4800	-2632.2	-741.8	136.4	193	55
RMS	280	137.5	97.6	230.5	272.9	100.3
1/2 P-P	584.6	298.5	246.7	492.8	561.3	283.5
RUN/POINT 13/5	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	-13.6	-117.3	-50	-9538.6	-3208	-214.4
RMS	514.1	633.6	469.2	360.9	739.3	22.6
1/2 P-P	874.3	1169.7	944.5	737.2	1359.4	50.9
RUN/POINT 13/5	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$	
MEAN	-5013.7	-7328.1	-4974.2	-7621.1	-4344.2	-1601.5
RMS	278.1	306.9	271	378.7	212.2	493.1
1/2 P-P	603.8	709.7	579.3	811.1	491.1	994.7
RUN/POINT 13/5	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-2113.3	-213.8	-4730.9	-8809.3	-257.9	-47.4
RMS	836.5	18.4	272.2	326.6	17.9	7.8
1/2 P-P	1549.3	45.9	565.2	688.3	42.9	17.3
RUN/POINT 13/6	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-4076.9	-2186.9	-581.4	172.5	200.1	1.1
RMS	220.7	131.9	79.8	96.7	95.1	81.7
1/2 P-P	481.2	281.9	236.1	269.1	270.7	224.2

RUN/POINT 13/ 6	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	-27.1	-88.1	9.2	-8762.6	-3102.3	-291.5					
	RMS 1/2 P-P	139.9 379.6	188.1 529.3	186.9 518.5	308.9 688.1	236.4 749.1	14.3 38.1					
RUN/POINT 13/ 6	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$			
	MEAN	-4288.2	-6652.8	-4262.7	-6955.7	-3778.3	-1350.1					
	RMS 1/2 P-P	204 452.6	324.3 663.7	215.3 446.7	355.5 700.2	282.1 566.8	216.5 539.3					
RUN/POINT 13/ 6	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-2001.1	-293.3	-4017.8	-8123.1	-340.1	-69.2					
	RMS 1/2 P-P	251 653.1	16.2 42.2	219.4 452.4	319.3 681	13.9 40.3	11.3 23.5					
RUN/POINT 13/ 7	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	-3486.5	-1823.2	-440.1	223.7	234.9	25.3					
	RMS 1/2 P-P	335.2 616.4	203.9 390	96.6 230.8	73.7 177.9	68.8 158.8	96.8 236.4					
RUN/POINT 13/ 7	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	-8.7	-80.5	15.2	-8106.8	-3032.9	-320.2					
	RMS 1/2 P-P	128.9 341.2	144.9 361.7	150.7 415.5	555 1045.9	264.5 680.8	16.8 42.9					

RUN/POINT 13/ 7	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-3689	-6045.4	-3652.1	-3652.1	-6347.5	-3251.1	-1137				
	RMS 1/2 P-P	336.5 610	560.7 1045.9	350.5 633.4	350.5 633.4	615.1 1208.9	497.4 978.1	326 660.5				
RUN/POINT 13/ 7	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1899.4	-321.3	-3417.1	-3417.1	-7522.1	-372.9	-73				
	RMS 1/2 P-P	248.3 657	17.2 41.7	337.6 623.4	337.6 623.4	547.2 1064	15.6 35.8	13.6 24.3				
RUN/POINT 13/ 8	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	-2812.4	-1407.5	-272.9	-272.9	294.7	292.3	87.6				
	RMS 1/2 P-P	521.7 967.9	314.9 569.1	138.2 307.8	138.2 307.8	98.1 271.3	98.9 272.7	135.7 384.9				
RUN/POINT 13/ 8	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	56.5	-29.8	11	11	-7381.7	-2971.5	-338.8				
	RMS 1/2 P-P	208.5 568.5	243 674.9	211.3 630.4	211.3 630.4	908.6 1631.7	336.1 932	21.5 53.3				
RUN/POINT 13/ 8	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-2985.1	-5368.6	-2939.7	-2939.7	-5666.5	-2659	-895.5				
	RMS 1/2 P-P	528.4 982.4	905.3 1669.3	531 975.4	531 975.4	988.1 1707.7	795.3 1407.2	516.8 1143				

RUN/POINT 13/8	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1794	-337.1	-2740.5	-6854.4	-395.6	-70.7
RMS	413.6	22.3	518.8	942.9	19.4	14.1
1/2 P-P	1034.2	55.3	981.3	1619.8	49	29
RUN/POINT 13/9	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-2101.9	-964.3	-90.6	377.4	357.7	149
RMS	433.2	257.8	119.6	122.5	129.2	131.4
1/2 P-P	851.5	505.2	323.8	352.7	334	285.7
RUN/POINT 13/9	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Chord Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	76.9	-35.7	-44.3	-6591.4	-2891.5	-375.8
RMS	265.5	318.6	272.6	767.8	464.7	26.2
1/2 P-P	716.9	787	775.5	1667.5	1218.4	65.7
RUN/POINT 13/9	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-2273.3	-4637.7	-2222.8	-4920.9	-2003.2	-593.4
RMS	427.6	776.5	422.3	824.6	662.9	508.6
1/2 P-P	874.9	1608.8	833.2	1743	1392.3	1269.4
RUN/POINT 13/9	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1651.9	-372.6	-2048.7	-6140.8	-436.8	-91
RMS	497.2	26.5	433.4	806.9	22.2	11.3
1/2 P-P	1314.1	63.4	862.9	1666.4	50.9	23.7

RUN/POINT 13/10	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-1401.4	-532	80.7	448.6	412.5	201.9
RMS	613.8	364.7	154.7	147.3	169.8	188.8
1/2 P-P	1236.4	702	379.9	378.5	416.4	442.8
RUN/POINT 13/10	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	137.4	12.4	-80.3	-5799.7	-2824.3	-397.1
RMS	374.4	442.6	337.2	1186.7	555.7	29.2
1/2 P-P	976.4	1062.6	886.9	2342.3	1427.7	65.4
RUN/POINT 13/10	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$	
MEAN	-1566.2	-3893.6	-1507	-4098.6	-1283.1	-283.3
RMS	613.3	1140.5	615.8	1226.4	985.2	680.5
1/2 P-P	1246.5	2095.9	1263.6	2331.4	1902.5	1566.2
RUN/POINT 13/10	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1502.7	-392.3	-1366.8	-5375.2	-464.5	-94.2
RMS	654.1	29.4	607.8	1193.2	24.5	15.5
1/2 P-P	1574.3	61	1229.6	2250	52.2	29.6
RUN/POINT 13/11	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-581.4	-24	279.9	522.6	460	252.8
RMS	635.3	384.1	176.8	146.8	158.4	209.4
1/2 P-P	1294.7	768.7	411.1	395.9	434	489.9

RUN/POINT 13/11	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	146.9	-20.3	-178	-4793.9	-2691.7	-426.2
RMS	358.3	416.4	322.8	1467.5	744.6	32.5
1/2 P-P	924.5	1165.6	1038.9	2848.2	1901.4	90.8
RUN/POINT 13/11	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-769.4	-2921.6	-675.4	-3121.6	-421.7	118.7
RMS	632.8	1425.1	642.1	1491.8	1214.4	829.6
1/2 P-P	1340.1	2746.7	1310.7	2984.8	2477.7	1962.2
RUN/POINT 13/11	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1294.5	-420.3	-568.5	-4459.8	-501	-93.2
RMS	756.1	31	642.1	1450.6	27.6	18.1
1/2 P-P	1830.5	79.1	1304	2945.7	80.1	40.9
RUN/POINT 13/12	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-55.3	301.2	410.6	590.5	524.5	351.3
RMS	559.5	330.9	159.2	166.8	173.5	242.9
1/2 P-P	1146	683.6	390.9	509.5	489.5	566.3
RUN/POINT 13/12	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	221.7	14.3	-219	-3961.5	-2631.3	-432.2
RMS	406.6	471.5	393.1	1278.6	670.1	45
1/2 P-P	1025.6	1299.9	1157.8	2468.8	1797.8	118.4

RUN/POINT 13/12	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-213.4	-2155	-86.8	-2404.2	204.2	377.1
RMS	555.1	1213.2	544.1	1238.1	1004	699.4
1/2 P-P	1198.3	2254.8	1153.6	2324.9	1978.8	1806.1
RUN/POINT 13/12	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1198.3	-423.4	-25.2	-3660.7	-511.6	-88.3
RMS	713.5	43.6	553.3	1313.6	36.6	8.7
1/2 P-P	1910.7	101.6	1124.9	2580.6	82.2	23.4
RUN/POINT 13/13	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	727.2	785.6	600.3	662.5	573.1	390.1
RMS	553.6	324	131.8	165.2	201.1	344.7
1/2 P-P	1185.9	672.1	340.6	458	537.9	764.2
RUN/POINT 13/13	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	208.9	-21.9	-300.6	-3021	-2494.1	-456.6
RMS	424.2	472.7	376.2	786	1258.9	52.4
1/2 P-P	1051.6	1197.9	1104.8	1982.8	3016.2	148.8
RUN/POINT 13/13	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	544.6	-1223	713.7	-1719	812.3	631.3
RMS	556.7	800.4	536.8	764.5	612.3	871.2
1/2 P-P	1156.6	2124.1	1119.3	1983	1598.5	2310.5

RUN/POINT 13/13	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-1059.4	-448.2	727.3	-2758.2	-541.5	-79.7
RMS	1154.7	49.8	560.6	810.2	43.6	13.7
1/2 P-P	2871.3	124.7	1096.4	1993	104.7	29.3
RUN/POINT 13/14	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	1480	1251.9	781.2	733.3	620	393.7
RMS	566.2	336.2	138.3	123.6	142.4	255.4
1/2 P-P	1217	739.8	366	349	369.4	667.7
RUN/POINT 13/14	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	216.5	-33.5	-374.7	-2128.3	-2362.8	-474.6
RMS	396.7	456.4	342.2	1320.8	1087.2	60.4
1/2 P-P	931.7	1152.9	928.2	2803.2	2831.1	133.5
RUN/POINT 13/14	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	1273.4	-246.7	1509.1	-1060.9	1431.2	916.5
RMS	553.3	1296.6	564.6	1309.1	1074.9	934.5
1/2 P-P	1287.9	2606.4	1272.9	2816.3	2250	2580.2
RUN/POINT 13/14	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-916.9	-467.1	1482.5	-1916.2	-566.9	-70.1
RMS	1060.4	58.7	567.3	1347.7	48.5	12.6
1/2 P-P	3159	126.3	1233.6	2813.1	110.7	36.2

RUN/POINT 13/15	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	2245.7	1730.9	977.5	822.9	691.1	461
RMS	731.5	440.1	205.5	180.1	190.4	354.1
1/2 P-P	1480	879.8	498.5	541.3	571	774.9
RUN/POINT 13/15	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	244.1	-25.7	-411.1	-905.4	-2228.7	-479.4
RMS	487.6	520.9	415.6	1962.3	1311.8	65.8
1/2 P-P	1288	1401.7	1320.3	3914.1	3315.8	171.6
RUN/POINT 13/15	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	2039	860.2	2308.1	-66.9	2305.4	1289.2
RMS	744.9	1867.4	713.4	1855.3	1535.5	1196.8
1/2 P-P	1563.1	3564.4	1544.7	3551	2880	2857.5
RUN/POINT 13/15	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-749.5	-471.9	2223.2	-765.3	-578.9	-57.7
RMS	1268.2	63	714	1888.7	56	14.7
1/2 P-P	3030.3	172.2	1488.1	3734.7	143.6	35
RUN/POINT 13/16	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	2985.2	2182.1	1147.5	896.4	750.9	593.1
RMS	819.4	484.7	226.5	261.6	297.9	348.7
1/2 P-P	1720.3	1043.1	673.7	731	787.1	832

RUN/POINT 13/16	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	345.4	-15.2	-525.5	221	-2102.2	-465.3
RMS	653.1	720.8	531.8	2219.7	1104.4	82.7
1/2 P-P	1629.9	1797.3	1575.3	3751	2738.6	196
RUN/POINT 13/16	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	2749.9	2226.1	3070.1	1061.4	3331.6	1793.5
RMS	826.6	2048.3	820.6	2065.5	1692.5	1178.4
1/2 P-P	1815	3808	1713.5	3772.9	3085	3190.4
RUN/POINT 13/16	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-494	-455.4	2923.2	266.9	-575.4	-39.1
RMS	1167.9	84.1	805.9	2138.6	66.1	17.2
1/2 P-P	3127.5	193.8	1672.7	3655.3	172.5	43.3
RUN/POINT 13/17	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	4143	2902.6	1449.7	1035.6	861.7	654.4
RMS	576.7	340.8	192.6	234.3	240.8	290
1/2 P-P	1388.7	788.3	535.9	684.1	634.8	822
RUN/POINT 13/17	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	274.8	-135.8	-650.4	1453.4	-1854.5	-465.7
RMS	494.6	599.8	503.5	1487.8	1925.8	70.6
1/2 P-P	1296.3	1552.5	1392.4	3584.6	3950.4	174.4

RUN/POINT 13/17	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	3850.9	3260	4264.8	2414.6	4541	2369.3
RMS	654.3	1624.3	632.5	1624.5	1347.8	1460.2
1/2 P-P	1458.5	3751.5	1482.1	3683.3	2912.8	3333.6
RUN/POINT 13/17	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-159.1	-456.3	4005.4	1245	-591.2	-10.4
RMS	1836.6	78.3	590.4	1513.5	60.3	13
1/2 P-P	4119.6	181.8	1493.3	3841.9	163.3	37
RUN/POINT 13/18	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	4811.6	3304.2	1594.3	1076.8	879.7	653.2
RMS	721.3	432.1	226.4	211	206.4	301.2
1/2 P-P	1598.2	988.4	737.9	738.8	725.5	845.6
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Chord Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	286.7	-156.3	-705.6	2528.2	-1658.8	-476.8
RMS	416.6	517	473.3	2340.5	1949	118.6
1/2 P-P	1106.1	1432.6	1535.6	5262	4322.7	384.9
RUN/POINT 13/18	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	4611.4	4236.3	5014.3	3597.5	5603.2	2905.8
RMS	822.8	2564	757.5	2465.3	2054.9	1670.6
1/2 P-P	1884.1	5718.4	1673.4	6340.2	5263.5	3977.3

RUN/POINT 13/18	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	152.8	-465.3	4713.2	2243.5	-604.4	2
RMS	1807.8	107.3	799.6	2512.3	97.2	19.7
1/2 P-P	4140.7	338.3	1801.2	5983.8	291.6	70.7
RUN/POINT 13/19	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-4254.2	-2313.1	-637.6	141.9	180.3	-15.7
RMS	153.1	86.2	66.8	106.8	111.4	76
1/2 P-P	335.8	169.9	193.5	302.4	311	213.5
RUN/POINT 13/19	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	-3.4	-63.8	17.1	-9515.6	-3224.1	-281.1
RMS	186.2	239.1	211.2	184.4	302.2	17.5
1/2 P-P	341.2	583	576.8	459.3	788.7	47.4
RUN/POINT 13/19	Flap Bending, in-lb Blade 2, $r/R=0.144$	Chord Bending, in-lb Blade 2, $r/R=0.144$	Flap Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.144$	Chord Bending, in-lb Blade 3, $r/R=0.174$	Chord Bending, in-lb Blade 3, $r/R=0.325$
MEAN	-4412.6	-7549.1	-4400.6	-7363.2	-4131.8	-1615.6
RMS	165.6	172.4	151.7	227.1	168.4	205
1/2 P-P	337.8	451.6	345.5	601.6	409.5	510.9
RUN/POINT 13/19	Chord Bending, in-lb Blade 3, $r/R=0.450$	Torsion, in-lb Blade 3, $r/R=0.400$	Flap Bending, in-lb Blade 4, $r/R=0.144$	Chord Bending, in-lb Blade 4, $r/R=0.144$	Torsion, in-lb Blade 4, $r/R=0.400$	Pitch Link, lb Blade 1
MEAN	-2159.4	-280.3	-4138.3	-8887.5	-330.1	-66.9
RMS	306	17.2	160.3	218	16.3	8.3
1/2 P-P	713.5	50.2	345.1	601.6	45.5	17.9

Appendix F—Forward Flight Dynamic Data

The forward flight dynamic structural loads for minimized flapping trim are presented in the following tables. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in

terms of *Cosine* and *Sine* components are presented. Data are organized and presented in the same run and point order as in Appendix C. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
28/ 5		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN		-3468.4		-1808.2		-441.2		167.2		241.2		38.3	
RMS		238.6		135.8		66.5		118.8		142.6		203	
1/2 P-P		513.7		294.8		163.8		282.1		327.1		453.2	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		3	-193.6	-7.4	-123.2	-34.9	-57.6	-33.2	-72.1	-29.2	-122.9	-41.9	
2nd		128.4	-23.4	75.3	-10.7	17.6	-3.5	-14.6	-23	-1.6	-170.5	-13.1	
3rd		184.6	-68.6	103.9	-32.7	11	-4.8	-56.8	-81.7	26.2	-175	34.7	
4th		45.1	-3.2	25.6	-1.4	4.2	-0.7	-14.9	1	2.5	-42.4	-0.2	
5th		-2	126.3	-1.1	50.7	8.6	-40.8	16	13.7	-149.7	-18.1	2.6	
6th		-2.6	6.5	-2	2.3	-1.6	-3.1	-1.7	-1.7	-8.2	6.5	3.3	
7th		6.7	0.8	1.1	-1.2	-5.6	-5.7	-11.9	-12.5	-5.3	12.3	11.5	
8th		4.5	1.8	1.9	-0.5	-2.5	-4.3	-5.3	-5.6	-4.7	2.6	12.9	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
28/ 5		Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN		-61.3		-161.5		-117.8		-8641.8		-2834		-296.4	
RMS		374.8		437.1		340.8		353.8		583.2		35	
1/2 P-P		824.1		967.4		823.3		859.5		1242.4		79.8	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-32.7	-70.6	35	-70.8	76.3	-29.4	100.6	93.4	42.8	-1.3	14.3	
2nd		-324.7	6.6	-341.5	2.9	-188.6	-16.4	52.9	67.6	-14	-34.1	-16.5	
3rd		-261.9	73.4	-334.5	87.9	-289.2	51.5	32.7	-58.3	-34.3	-17.1	-15.1	
4th		56	9.3	75.2	27.8	6.5	52.4	28.2	632.5	-312.6	5.7	-2.7	
5th		-12.7	291.6	52	344.4	77.2	267.7	-164.5	38.9	337	5.2	10.9	
6th		-3.1	20.4	15.4	10.3	64	-6.3	-9.9	-10.8	23.1	-1.9	0.8	
7th		7.7	-4.4	-26.2	-7.8	-32.3	-33.1	16.5	-15.8	-14	0	-2.1	
8th		7.3	-10.2	-9.4	-18.6	-38.4	-23.2	13.6	7.4	-11.5	0.9	-2	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3577.7		-6313.6		-3573.8		-6721.8		-3474.3		-1039.3	
RMS	258.4		389.4		263.5		383.2		315.4		427.3	
1/2 P-P	544.3		874.3		539		902.1		658.4		977.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	220.5	63.4	61.7	493.2	-72.6	227.3	-470.6	61.1	-399.2	57.7	-246.5	10.7
2nd	-133.2	23.7	82.3	-48.1	149.7	-8.2	-83.1	55.6	-57.2	42.3	2.5	27.3
3rd	-74.7	-184.5	26.2	0.9	-174.7	69.5	10.6	-21	3	-8.9	8.5	29.3
4th	51.7	-10.9	-67	24.2	55.1	-11.7	-14.3	25.4	69.4	-23.3	414.8	-234.4
5th	-132.5	-5.1	118.6	-13.2	3.2	-136.1	50.9	155.5	28.5	76.3	-10.2	-238.8
6th	-1.8	1.2	-10.8	-5.2	4.8	0.2	3.3	21.6	0.2	12	-4	-12.5
7th	2.2	-9.7	9.7	4.2	-9	-0.2	15.7	6.6	9.8	5.2	-8	-8
8th	4.4	-6.3	3.3	11.1	-1.2	-1.1	9.4	13.6	4.7	11.7	0.9	13.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1690.2		-294.3		-3397		-7959.7		-345.9		-50.2	
RMS	584.4		35		242.7		349.6		35.1		14.7	
1/2 P-P	1409.8		78		520.8		873.3		76.5		27.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	-169.9	-6.3	2.8	-10.5	-188.2	-32	-20.4	-423.5	15.8	0	-11.8	14.4
2nd	43.2	11.9	-36.4	-19.4	-144.1	21.8	115.9	-44	34.7	17.8	-3.5	-3.8
3rd	26	47.4	17.3	12.6	68.7	186.7	-23.7	-13.6	16.7	-14.8	-5.2	-0.4
4th	569.4	-364	0.6	0.5	48	-7.6	-40.3	45.1	3.2	0.3	1.7	-1.4
5th	-79	-388	-4.7	-6.7	124	-20.1	-131.2	-5.7	6.3	-6.1	-0.9	3.5
6th	-11.4	-33.8	-0.5	-0.2	-0.4	-7.6	19.1	-1.2	2.1	-0.6	-0.3	-0.1
7th	-5.3	-7.3	0.4	3.1	0.4	8.6	16	18.1	3.8	0.5	-0.7	-0.6
8th	-7.9	-2.4	1.3	-0.7	-1.1	8.3	1.4	14.2	1.2	-2.4	0.2	0.2

RUN/POINT Flap Bending, in-lb Flap Bending, in-lb Flap Bending, in-lb Flap Bending, in-lb Flap Bending, in-lb
 28/ 6 Blade 1, $r/R=0.144$ Blade 1, $r/R=0.167$ Blade 1, $r/R=0.215$ Blade 1, $r/R=0.280$ Blade 1, $r/R=0.325$ Blade 1, $r/R=0.570$

MEAN -2281.7 -1075.9 -147 281.1 335.6 208.5
 RMS 167.3 108.1 67.5 77 86.9 235.8
 1/2 P-P 333.6 221.2 153.8 186.7 206 488.8

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-171.7	-27	-121	-21.2	-83	-18	-81.4	-22.9	-88.1	-25.1
2nd	18.7	19.9	9.5	13.7	-3.7	7.5	-9.9	2	-12.3	-0.8
3rd	117.5	-73.8	67.4	-38.6	8.1	-6.3	-34.1	17.6	-50.4	27.3
4th	33.2	4.2	19.1	2	2.8	-2.8	-12.1	-5.4	-19.6	-6
5th	-3.9	11.1	-2.6	4.2	-0.7	-4.7	1.1	-11.6	1.5	-13.4
6th	6.4	6.9	1.7	3.9	-3.9	-1.5	-8.7	-5	-10.4	-6.8
7th	3.3	0	0.7	1	-2.9	0.7	-6.2	1.4	-6.7	2.6
8th	21.2	-3.8	4.8	-3	-20	-3.2	-36.5	-2.5	-35.2	1.4

RUN/POINT Flap Bending, in-lb Flap Bending, in-lb Chord Bending, in-lb Chord Bending, in-lb Torsion, in-lb
 28/ 6 Blade 1, $r/R=0.725$ Blade 1, $r/R=0.800$ Blade 1, $r/R=0.900$ Blade 1, $r/R=0.144$ Blade 1, $r/R=0.570$ Blade 1, $r/R=0.400$

MEAN 237.3 58.8 -138.4 -7420.7 -2821 -335.8
 RMS 364.2 386.6 272.6 318.3 401.2 24.8
 1/2 P-P 616.9 713.2 615.3 799.6 911 54.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-427.7	-40.5	-277.9	-24.7	3.1	3.8	-306.5	234.3	112.2	68.8
2nd	-261.1	-13.8	-440.5	5.2	-311.6	9.9	63.2	15.8	44.7	-18.7
3rd	-50.8	65.9	-28.3	59.1	-132.2	53.6	20.5	24.9	-75.3	-31.7
4th	35.1	28.8	118	29.5	122.7	19.9	-50.8	34.8	406.1	-298.1
5th	-1.7	27	-6.7	36.8	58.7	17.1	5.8	17.8	-3.7	2.7
6th	10.8	10.6	2.3	-3.3	-9.6	-11	1.8	-10.1	5.2	-32.8
7th	1.7	-1.8	-7.3	0.4	-31	-2.2	24	10.7	-24.7	14.1
8th	-11.7	-5.5	-57.1	0.1	-62.3	5.2	68.7	-61.2	-59.3	-9.4

RUN/POINT 28/ 6	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	MEAN	-2354.3	-5189.4	-2345.7	-5615.7	-2506.8	-768.7					
	RMS	152	253.7	157.4	330.9	274.5	255.5					
	1/2 P-P	328.4	653.3	348.5	781.4	679.2	608.9					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	71.2	-111.6	-251.7	101.4	97.6	-173.7	311.3	-132.8	103.8	-90.1	
	2nd	-28.5	-25.3	8.1	26.7	37.9	-6.4	64.5	-3.7	64.1	-10.8	
	3rd	-82.8	-121	-20.7	-115.7	84.6	-16	-12	-5.3	24.2	25.6	
	4th	35	-0.1	13.5	41.8	0.8	8.1	34.7	-26.2	237.2	-181.3	
	5th	-7.2	-6.6	14.9	-1.6	-3.3	0.2	1.8	-16.9	-1.2	17.3	
	6th	-8.7	-1.8	9.1	9.4	-1.3	-5.7	-4.7	3.2	2.7	5	
	7th	-2.1	-3.7	11.9	-1.9	1.5	19.8	11.9	4.5	-10.6	-2.7	
	8th	24.3	-5.6	-65.2	26.2	-6.7	-66.8	60.8	-55.8	32.5	-23	
RUN/POINT 28/ 6	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	MEAN	-1646.3	-331.2	-2206.2	-6883.2	-396.8	-57.7					
	RMS	325	24.9	158.1	324.3	22.6	15.4					
	1/2 P-P	702.9	55.7	332.2	827.5	49.4	29.7					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-21.2	-77.1	18.6	-46.2	124.6	377	2.5	16	-14.5	14.2	
	2nd	61.4	-16.5	-18.6	-40	-22.4	-0.3	18	8.8	-2.6	-1.1	
	3rd	56.8	47.8	17.3	85.9	128	15.5	9.5	-14.3	-5.8	0.3	
	4th	317.8	-264.9	-2.1	34.6	4.4	37.5	0	0.9	0.8	0.3	
	5th	-8.1	46.1	1.7	15.9	6	-11.2	-0.7	1	-2.2	1	
	6th	6.4	-2.8	-0.7	-4.2	-3.8	-5.8	0	0.1	0.1	0	
	7th	-9.8	-3.1	-0.1	3.9	5.4	4.3	1.3	-0.1	-0.8	-0.2	
	8th	-29.6	24.3	-2.6	22	-14.2	-57.5	-2.7	0.7	-0.3	0	

RUN/POINT 28/ 7	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-758.6	112.1	-51	64	-49.3	14.7	-65.6	-14	-74.3	-21	-257.5	-58.5
RMS	262.3	-142.8	-86.9	-84.4	-34.7	-20.7	-3.5	19.4	5.8	33.2	34.1	114.4
1/2 P-P	693.4	50.6	90.1	29.9	10.9	-1.4	-46.7	-21.4	-69.9	-26.8	-133.2	-50.5
HARMONIC		19	9.9	8.6	-0.1	-1.3	-10.5	-9.4	-15.9	-10.5	-3.3	-5.4
		-24.3	-9.3	-2.8	7.5	3.5	24	10.2	29.6	12.7	10.1	4.3
		-2.5	3.3	2.6	-0.9	1.6	0.2	1.2	0.2	1	3.4	2.8
		-1.7	7.4	1.5	1.1	-7.7	2.8	-13.2	2.4	-12.1	-5.1	16.8
		-15.7	-0.3	1.9	14.8	6.1	30.1	8.4	29.3	7.2	-29.8	-19.7
RUN/POINT 28/ 7	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	245.7	-83.4	-601.2	-79.8	-269.7	-23.8	-1267.7	28.7	16.7	50.7	-16.5	0.8
RMS	420.2	119.6	-35.4	95.9	-160.5	30.3	223.2	138.3	-8.3	-19.5	-7.2	9.8
1/2 P-P	927.9	-17.7	-7.4	2.7	73	21.9	-9	15.2	9.6	-53.2	-12.7	-19.8
HARMONIC		-11.3	33.5	-18.5	36.1	-8.4	-54.2	-16.3	218.7	39.1	4.5	-0.9
		-53.7	-45.7	-59.7	-57	-46.8	57	11.5	-152.2	-45.2	-1.5	-1
		-7	-13.7	-16.4	-18.7	-8.7	12.4	-9.9	-35.4	1.8	-0.1	0.4
		-6.9	-2.9	-20.8	0	-27.6	11.4	7.4	-21.8	-2.8	0.3	-0.4
		6	40	10.8	45.2	17.9	-117.6	47.2	108	-46.2	1.6	1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
28/ 7												
MEAN	-815.4		-3127.7		-782.5		-3457.5		-638.4		124.7	
RMS	266.4		942.7		278.9		1061.8		873.3		578.2	
1/2 P-P	702.7		1726.1		691.1		1964.5		1596.8		1659	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	-60.3	29.1	27.6	-1229.7	-32.2	-57	1400.5	15.5	1152.7	30.5	538.8	-3.2
2nd	139.6	137.7	-172.9	-116.9	-158.6	-145	228.3	155	174.5	125	67.2	62.1
3rd	41	-194	24	4.9	-185.4	-57	23	-2.6	8	9.6	0.9	53.1
4th	21.2	24.7	-11.5	-11.4	16.1	19.8	-7.6	-15.1	8.9	-4.2	68.8	31.4
5th	12.7	-41.3	-5.4	55.9	52.5	5.2	-78.3	0.9	-35.5	-1.5	122.6	7.4
6th	-0.5	3.2	-2.8	5.9	2.9	-5.3	-5	18.2	-4.2	12.1	0.4	2.3
7th	4.2	5.2	7.1	13.3	9.9	-9.7	11.5	16.1	5.6	13.3	-8	-6.7
8th	-17.7	4.4	-96.5	61	-23.3	-14.5	-99.1	66.5	-92.8	53.3	-53.7	41
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/ 7												
MEAN	-1205.2		-400.2		-707.5		-4829.3		-476.6		-64.8	
RMS	603.3		27.6		278.3		1035.1		22.9		15.9	
1/2 P-P	1646.3		74.1		688.3		1749.1		73.1		29.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	226.8	-31.3	15.4	4.8	86.1	-7.5	-54.7	1354.6	1	13	-11.2	17.8
2nd	17.6	16.3	-5.5	10	154.2	146.7	-206.5	-156.4	8.7	-5.2	-3.2	-0.1
3rd	19.9	94.3	14.8	19.1	-52.7	184.8	-25.8	-15.4	14.5	-10.2	-3.6	-0.2
4th	112.1	45.8	6.6	-3.3	21.3	17.7	-40.5	-3.8	5.1	-2.2	1.4	-0.5
5th	199.6	6	2.2	-1.2	0.6	45.5	12	-65.5	1.3	1.8	-1.5	1.9
6th	2.8	-20.6	0.5	-1	2.1	5.6	1.9	-9.7	0.7	0.6	0.2	0.1
7th	-8.8	-14	0.5	1.5	-6.2	-1.4	11.1	8.2	2	0.7	-1	-0.3
8th	30.7	-16.8	2.3	2.2	-30.8	-4.6	-113	48.2	2.7	1.6	0.3	-0.5

RUN/POINT 28/ 8	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-294.3	109.6	-184.8	42	-110.4	-21.8	-81.8	-15	-96.3	-15.4	-231.2	-24.6
RMS	348.2	-249.9	-52.7	-149.4	-27.9	-59	-12	39.9	4.2	46.7	110.9	139.2
1/2 P-P	757.2	135.5	-42	75.9	-19.1	5	-52	16.7	-72	24.6	-133.6	51.4
		-15	-34.9	-6.6	-20.9	3.3	7.5	11.3	7.3	19.4	0.2	29.8
		103.1	1.1	38.9	1.2	-41.1	-114.3	-13.6	-136.9	-10.4	-1.8	1.8
		13.3	11	5.7	5.2	-2.7	-11	-10.9	-13.5	-12.1	4.5	0.1
		12.9	-0.3	3.4	0	-8.8	-19.9	-0.3	-20.6	1.9	22.4	3
		-11.1	14.3	1.2	1.9	20.2	34.8	-23.8	29.8	-24.6	-44.6	19.9
RUN/POINT 28/ 8	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	312.5	-42.5	-586.4	-44	-302.8	-3.7	-1995.1	511.8	-115.2	109.1	-15	16.1
RMS	466	167.4	119.8	150.5	-38.9	61.8	372.8	18.4	-81.8	-67.3	6	19.9
1/2 P-P	1099.1	-74.4	80	98.7	88.5	99.9	50	-15.6	-117	-73.5	-26.9	-4.9
		-19.4	-31.7	-35.1	-19.7	-19.1	-9.5	94.1	151.6	-819.7	10	4.6
		262.1	324.8	62.3	225.4	60.8	-129.6	75	369	-115.2	6	-4.5
		13.5	14.9	41.5	0.6	24.4	-34.2	4.6	55.5	-3.6	2.7	2.6
		0.2	-20.8	11.7	-17.9	10.9	2.7	-7.1	7.8	3.3	-0.6	0.2
		14.7	55	-33.7	65.8	-36.2	-22.1	-1.3	27.3	3.6	2.1	0.6

RUN/POINT 28/ 8	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-339.8	181	-2312.6	-2005	-274.2	208.7	-2826.4	-438.2	-84.6	-316.2	290.7	-179.9
RMS	388.8	49.9	1544.5	-324.6	379.4	-36.8	1574.1	5.2	1290.9	2.3	809.6	-35.1
1/2 P-P	873.6	-164.6	2873.8	-1.2	931.1	47.2	2807.5	16	2337.5	15.8	1913.1	25.7
		-36.2		-17.9		-56.3		-2.1		-83.5		-441.1
		102.8		-83.3		28.7		94.6		42.2		-200.1
		1.2		10.5		-0.3		13.9		6.7		0.3
		5.9		9.5		-1.8		16.1		9.5		-15.1
		-7.2		-14.4		2.4		1.5		0.1		-6.6
		-2.2		7				9.9		5		2.9
RUN/POINT 28/ 8	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1137.1	-136.3	-401.5	-10.9	-228.5	-182.6	-4017.2	2159.3	-487.1	13	-62.9	15.4
RMS	786.6	-48.7	35.7	8.7	362.1	30.3	1641.6	-8.7	32.6	-16.7	14.6	3.5
1/2 P-P	1955.1	37.9	89.2	27.6	823.4	264.9	3017.7	60.5	81.6	-25	29.8	2.5
		-609.4		2.1		140.9		23.8		0.3		0.3
		265.8		5.6		-35.2		98.5		3		0.7
		-304.3		2.3		-76.7		-4.3		-1.5		0.2
		-27.4		0.4		-1.5		-5.1		-2.3		0.3
		24.7		1.5		3.8		0.9		-0.9		0.3
		-10.9		0.7		-18.3		1.2		2.3		-0.3

RUN/POINT 28/ 9	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	348.5	-532.3	31.9	-315.7	-11.1	-115.8	-54	-20.7	-60	-4.8	-176	-29.8
RMS	566.7	23.1	-86.3	18.7	-43.7	30.1	-28.7	48.2	-21.4	58.8	85.8	148.3
1/2 P-P	1197.1	-8.6	-4.3	-2.5	-3.2	-2.4	-9.6	-1.4	-14.3	2.3	-13.5	72.7
		-75.2	-39	-27	2.6	-8.6	39.1	8.4	49.7	15.6	14.8	45.9
		154.2	56.6	-37.3	-76.2	39.1	-195.8	111.6	-226.1	139.8	15.5	-10
		13.5	4.6	8.3	-5.8	-6.8	-17.7	-17.8	-20.8	-21.5	27.1	7.7
		4.1	5.6	0.1	8.2	-3.9	5.1	-10	0.5	-10.3	-2.8	25.5
		-4.4	-2.2	-5.7	0.6	-2.6	4.5	-1.6	5.7	-1	-11.3	8.6
RUN/POINT 28/ 9	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	362.8	-89.2	-614.4	-100.1	-332.1	-55.6	-2601.9	1399.8	-210.3	302.6	-10.3	16
RMS	581.1	130.5	102.7	91.3	-50.3	22.2	318.7	-58.7	-73.1	-65.2	6.9	9.8
1/2 P-P	1373.8	84.2	169.8	155.2	173	125.3	59.1	-68.6	-46.4	83.8	-6.7	10.4
		-56.8	-82.8	39.1	-54.3	29.2	117.7	60.2	-860.2	-1047.5	18.1	-2.2
		426.2	507.2	-212.3	352.7	-121.1	-105.6	201.3	366.5	-463	8.1	-14
		4.3	-30	40.3	-45	18.4	-16.8	8.4	5.9	-20.6	1.7	6.2
		2.1	-17.8	-42.2	-21.7	-40.1	-6.7	8.8	-18.6	-26.9	-0.1	-0.2
		5.2	11.7	-24.5	12.5	-21.3	-10.6	-173.2	4.6	161.1	-1.9	0.6
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-484.8	-89.2	-614.4	-100.1	-332.1	-55.6	-2601.9	1399.8	-210.3	302.6	-10.3	16
2nd	146.1	130.5	102.7	91.3	-50.3	22.2	318.7	-58.7	-73.1	-65.2	6.9	9.8
3rd	84.2	132.2	169.8	155.2	173	125.3	59.1	-68.6	-46.4	83.8	-6.7	10.4
4th	-56.8	56.8	-82.8	39.1	-54.3	29.2	117.7	60.2	-860.2	-1047.5	18.1	-2.2
5th	426.2	-195.7	507.2	-212.3	352.7	-121.1	-105.6	201.3	366.5	-463	8.1	-14
6th	4.3	39.1	-30	40.3	-45	18.4	-16.8	8.4	5.9	-20.6	1.7	6.2
7th	2.1	-8.5	-17.8	-42.2	-21.7	-40.1	-6.7	8.8	-18.6	-26.9	-0.1	-0.2
8th	5.2	-9.4	11.7	-24.5	12.5	-21.3	-10.6	-173.2	4.6	161.1	-1.9	0.6

RUN/POINT	28/ 9	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN		307.9	-1438.6	383.7	-2031.2	609.3	573.5						
RMS		620.3	2315.9	618.4	2327.3	1916.7	1353.8						
1/2 P-P		1377.4	4278.8	1364.1	4245.3	3616.1	3527						
HARMONIC	1st	COSINE		SINE		COSINE		SINE		COSINE		SINE	
		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
		616.9	186.6	-2729.3	-203.7	606.5	2743.5	-1344.6	2291.8	-1042.9	1188.1	-593.9	
	2nd	134.3	-18.5	94.7	-141.9	16.5	263.5	-31.4	213.7	-29.9	95.8	-54.8	
	3rd	-10.6	-19.4	-35.3	9.2	3	-56.6	69.6	-34.6	49.9	43.9	4.6	
	4th	-95.1	-34.5	171.1	-74.5	-43.5	76.1	-34.6	-58.2	-144.2	-644.7	-653.1	
	5th	139.6	141.7	-80.6	-130.1	163.8	29	-240.1	-13.2	-109.6	-271.4	409.9	
	6th	-11.9	-18.6	7	14.1	14	4.5	9.6	-3	8.9	-26.2	16.2	
	7th	7.9	-0.4	39.9	-8.2	-11.6	25.6	-36	20	-27.1	-22.4	-1.7	
	8th	7.8	-14.1	-28.2	-160.8	-17	-33.5	-186.9	-20	-170.6	-24	-79.3	
RUN/POINT	28/ 9	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN		-1000.7	-410.4	395.4	-3266.3	-499.7	-55.8						
RMS		1393.2	38.2	608.9	2373.3	36.3	13.4						
1/2 P-P		3893	120.2	1253.6	4458.2	111.1	34.7						
HARMONIC	1st	COSINE		SINE		COSINE		SINE		COSINE		SINE	
		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
		626.6	-400.3	8.8	-11.5	-580.9	1366.4	2793.6	17.7	7	-8.9	9.4	
	2nd	6	-63.6	10	11.3	129.2	-281.8	0.7	-1.9	-9.2	-0.9	4.7	
	3rd	92.4	-9.5	2.4	-8.2	-5.1	46.5	29.1	-8	-8.1	-3.4	5.8	
	4th	-960.1	-834.5	22.9	1.4	-77.4	83.1	-30.4	20.9	-7.3	2.2	-1.3	
	5th	-343.2	693.1	3.6	6.1	-193.2	208.8	108.8	-14.3	6.7	-1.7	-0.2	
	6th	-34.2	12.5	0.5	3	-23.1	-6.7	-17.4	-3	-2.3	-0.1	0.4	
	7th	-25.4	30.8	-0.3	0.5	-15.5	-24	-16.3	0.3	0.6	0.4	0.3	
	8th	-9.9	74.6	-0.2	1.4	3.5	-11.6	-178.8	-1.1	2.6	1.1	-1.2	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2202.5	1726.6	993.8	782	742.2	577.5						
RMS	486.4	285	140.9	210.5	241.3	271.8						
1/2 P-P	1408	813.9	456.4	638.2	651	752						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-159.3	192.3	-112.1	123.1	-45.4	50.5	-27.5	15.9	-21.3	4.2	-187.2	-68.6
2nd	-163.4	38.9	-96.5	28	-28.5	31.2	12.9	35.8	27.8	33.6	136.1	53.1
3rd	-36.6	-16.8	-23.5	-8.6	-8.6	0.6	-2.4	4.1	-3.5	3.5	20	24.9
4th	-61.6	40.4	-41.5	21.7	-18.2	-0.1	4.4	-21.4	15.2	-28	43.8	-38.8
5th	-95.6	-97.6	-42.3	-40.6	12.1	36.2	60.7	106.3	81.3	123.2	39	-5.5
6th	-9.7	-26.3	-6.2	-8.8	-4.9	13	-4.1	30.6	-1.6	31.5	5.4	-15.8
7th	-9.1	-2	-4.9	-2.7	-0.2	-3.6	1	-3	1.8	-0.9	1.6	5.1
8th	-10.3	0.4	-1.5	0.6	6.5	2.5	11.5	3.5	10.2	3	-8.1	-1.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	330.7	25.1	-479.9	-1017.6	-2136.7	-451.9						
RMS	605.2	724.9	484.1	2069	1526.7	54.7						
1/2 P-P	1653	1905.2	1250	4369.8	4026.8	138						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-524.1	-91.7	-655.4	-61.6	-324	-0.1	-2153.8	565.5	-114.6	183.6	-3.2	-3.3
2nd	188.1	58.7	183.3	55.3	15	31.9	307.8	-112.1	-73.6	-66.4	12.9	11
3rd	47.8	61.3	78.7	77.8	93.9	61.1	-9.3	10.2	29.4	9.4	21.8	-6.8
4th	-6.2	40.9	-19	104.7	-4	90.6	138.5	-89.2	-1228.3	863	-5.8	-29.2
5th	-156.9	-241.7	-235.4	-267.5	-195.8	-181.2	162.5	63.8	-365.1	-178.9	-17.4	-3.1
6th	2.8	-53	-9.8	-41.3	-23.9	-28.5	31.2	22.6	-35.6	-9.2	2	-1.3
7th	3.8	-24.1	0.7	-26.2	1.1	-16.8	16.2	-29.2	-11.2	42.6	0.4	-2
8th	3.7	-16.9	1.5	-11.5	-0.9	-6	112.7	-34.1	-108.6	42.8	1.5	-1.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	2106.6	1211.9	2340.8	66.2	2479.8	1422.8						
RMS	467.2	2084.2	478.3	2027.4	1702.9	1346.3						
1/2 P-P	1218.2	4181.2	1324.6	3978.3	3379	3276.7						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	-127.3	-59.4	-2408.3	92.3	-147	-573.7	1989	1052.2	-459.9	1052.2	-294.9	
2nd	183	-64.6	126.6	-179.2	80.1	-224.3	247.9	87.8	-183.9	87.8	-142.1	
3rd	6	39.6	-2.1	63.1	11.2	12.9	-4.1	10.4	-3.5	10.4	-72.3	
4th	-42.3	64.7	-118.2	-42.9	52	-60.4	-165.1	-653.9	59.7	-653.9	573.9	
5th	90.8	-61.9	113.9	49.9	129.4	-67.1	-76.6	162.3	-20.6	162.3	208.9	
6th	11.7	15	12.6	15.4	-6.2	-11.3	-8.5	-10.5	-10.3	-10.5	45.9	
7th	-3.9	0.6	-32.4	3	14.1	-14.6	-13	-7.4	-11.4	-7.4	-0.8	
8th	7.3	7.1	-36	18.3	16.7	-30.5	62.6	34.4	-23	34.4	5.5	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-593.5	-436.1	2238.7	-971.7	-546.1	-25.7						
RMS	1497.1	48.2	453.6	2188	44.3	23.3						
1/2 P-P	4063.8	122.5	1266.4	4259.3	107	53.5						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	551.6	-245.5	2.2	6.5	23.3	2568.5	-2.6	3.4	-16.1	24.6		
2nd	-14	-112.9	18.5	15.3	-48.7	196.4	-8.6	-15.4	0.7	2.5		
3rd	22.3	-105.6	-21.9	6.4	-27.2	58.9	4	15.3	4.1	3		
4th	-827.2	875.4	-6.5	-25.2	48	-116	-7.4	-26.3	-1.7	-4.9		
5th	298.7	296.8	6.3	-0.1	86.6	-121.6	1.8	12.4	-1.9	3.1		
6th	-7.7	71.2	0.7	-0.6	23.4	7.2	-2.1	2.6	0.2	0		
7th	3.9	-2.7	0	0.6	0	-13.9	1.4	-0.6	0.7	0.6		
8th	-28.7	23.1	-0.2	-2.4	4.4	-31.5	-1	-2	-0.3	0.6		

MEAN	3337.4	2428.1	1272.7	887.6	816.4	679.4
RMS	947.2	559.3	256.5	224.5	223.5	325.2
1/2 P-P	1938.3	1090.6	584.5	709.8	708.5	920.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	661.3	-786.1	382.6	-470.9	142.1	-211.6	3	-95.2	-26.1	-74.4	-186.8	-97.4
2nd	-255	251	-152.2	149	-49.5	56.6	10	11.4	29	3	133.8	-23.2
3rd	81.1	-47.4	48.1	-22.7	13.6	1	-14	21.3	-27.7	30	-72.6	56.1
4th	-54.2	-28.4	-36.8	-19.5	-24.6	-9.5	-8.1	3.1	3.6	10	74.7	48.4
5th	70.1	-54.9	26.7	-20.8	-33.5	17.2	-85.7	53.9	-98.4	70	10.6	17.7
6th	-7.6	5.6	-3.6	4.3	2.8	5.4	9.6	6	11.7	4	-4.2	-8.3
7th	1.2	7.7	4.6	3.5	11.8	-2.9	15	-7.8	15	-6.9	-20.8	8.3
8th	-6.3	-20.5	-8.8	-10.3	-13.7	9.7	-11.3	25.7	-3.7	30.2	16.7	-35.3

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$

MEAN	392.1	10.2	-570.8	444.7	-1942.1	-456.4
RMS	504.5	600.5	478.9	4258.8	2004.2	106.9
1/2 P-P	1350	1750.3	1665.4	8050.7	5579.8	348.1

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-385.9	-193.3	-456.3	-226.8	-204.5	-141.4	-5012.1	2751.4	655.6	35.3	-3.1	
2nd	160.2	5.7	124.1	45.1	-31.5	32.3	537.9	-171.3	-74.3	17.5	-15.7	
3rd	-77.1	119.3	-59.4	164.5	-15.7	142.6	13.5	3.2	2.1	28	-34.6	
4th	48.2	4.5	20.4	-12.7	24.5	-3.8	238.1	100.8	-1239.4	-10	-22.4	
5th	192.6	-130.6	229.8	-179.3	160.2	-137	9.2	106	-320.3	14.8	1	
6th	0	2.7	16.3	18.2	35	15.6	15.6	-14.9	20	0	3.3	
7th	-4.1	11.9	3.7	-10.5	4.8	-9	14.2	23	-28.4	0.3	-1.6	
8th	-18.6	8.7	-10.7	40.5	-8	30	-167.2	-183.3	166.6	-4.7	7.2	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
28/11												
MEAN	3370		2927.9		3355.8		2032.8		4211.4		2262.4	
RMS	1124.4		4731.3		1064.2		4618.1		3833.5		2465.6	
1/2 P-P	2121.5		8381.8		1978.6		8263		7019.5		5605.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144	
1st	1102.1	808.8	-3291.9	-5504.9	-698	1082.8	5223.4	-3507.4	4388.6	-2822.8	2386.5	-1747.3
2nd	271.5	-181.3	-406.6	166.4	-243.2	136.1	329.4	-88.5	269.4	-65.6	170.2	-66.9
3rd	-96.6	-141.7	41.7	95.4	-95.4	85	4.6	1.7	23.5	12.4	147.1	29.4
4th	-74.9	-46.6	287.9	140.3	-72.9	-56.9	-11.8	-49.6	-203.4	-167	-1083.8	-685.8
5th	-1.4	100.9	-29	-15.7	-64.7	51	-41.1	-70.4	-40.7	-17.4	-73.3	214.4
6th	7	12.6	-8.9	21.9	-24.4	4.8	-2.8	7.5	-9.9	6.6	-40.4	12.6
7th	0.7	5.6	59.3	22.8	11.4	-5.5	26.4	-3.6	14.6	3.4	-18	23.4
8th	-32.9	-82.4	-162.4	-159.1	-16.5	-50.9	-197.6	-177.7	-165.5	-169.6	-87.3	-77.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/11												
MEAN	-135.3		-421.8		3351.6		533.6		-553.4		-13.3	
RMS	2105.7		80.4		1056.3		4663.5		77.6		25.3	
1/2 P-P	5602.4		228.7		1984.3		8493.2		249.8		86.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1349.5	-1246.6	-25.6	14.9	-1047.1	-705	3139.7	5497.5	-4.1	-18.5	1.4	14.1
2nd	107.3	-79	19.6	5.9	317.1	-105.4	-538.5	-14.9	-13.9	-5.7	0.1	5.8
3rd	217.1	41	-31.9	19	84.5	60.6	-66.1	-88.1	22.5	29.4	10	-3.5
4th	-1551.8	-833.7	36.3	-21.5	-71.3	-55.4	-8	-103.6	0.3	-22.2	-2.8	-5
5th	-63.7	338.3	-3.6	4.7	-85.9	-34.8	95.7	-41.6	-4.7	-6.2	2	3.5
6th	-51	-0.2	1.3	2.9	16.6	-4.8	-14.9	6.1	-4.7	1.2	-0.1	0.5
7th	-28.6	39	1.7	0.7	-10	-18.1	-23.3	7.6	1.4	1.2	2.3	-2
8th	69.5	82.2	-2.2	5.9	-25.5	-64.8	-187.2	-185.1	-4.7	6.1	-3.7	-1.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-235.8		202.5		-595.4		484.8		502.6		314.4	
RMS	383.1		229.1		105.8		122.8		138.3		286.6	
1/2 P-P	956.9		569.2		322.9		378.7		429.8		826.3	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-196.1	198.8	-133.2	120.9	-43.9	2.7	-49.8	2.9	-53.5	-7.1	-225.3	-47.9
2nd	-290.6	-94.2	-166.3	-58.6	28.3	18.1	34.4	22	58.1	31.4	182.3	93.8
3rd	152.6	-126.1	88	-68.4	-37.1	22.8	-45.7	28.1	-67	44	-135.1	108.9
4th	-25	-21.1	-16.1	-14.2	-0.8	-3.7	-0.6	-5.6	2.6	-3.8	26.8	34
5th	-7.3	0.2	-6.3	1.4	-8.4	1.3	-8.3	2.2	-6.8	1.2	18.6	4
6th	0.4	2.4	-3	0.8	-12.3	-3.2	-15.1	-3.9	-14.8	-3.2	21.3	2
7th	4.1	5.3	-1.5	5.2	-12.7	2.5	-15.4	2.5	-15.7	1.2	25.7	1.1
8th	0.7	8.7	3	-2.8	2.8	-23.1	4.8	-26	3	-22.7	-5.1	24.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	278.7		105.6		-182.4		-4374.3		-2595.9		-436.5	
RMS	446.1		509.9		337		1014.8		1272.4		41.8	
1/2 P-P	1160.7		1270.4		907.3		2286.7		2989.9		116.2	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-494.6	-54	-598.7	-37.9	-335.2	0.6	-1127.1	416.5	58	137.6	-8.2	7.1
2nd	237.4	74.3	200.1	58	8	29.5	325	93.3	-61.4	19.5	13.6	20.6
3rd	-13.5	115.8	89.8	91	149.8	42	13	44.3	-52.1	-55.2	-31.4	5.7
4th	61.5	54.1	46.3	56	26.9	54.4	53.3	77.2	-623.7	-517.6	5.2	-13
5th	66.2	19.9	81.7	26.2	69.4	17.6	51.6	36.2	-111	-61.1	-2.5	3
6th	46.8	9.7	36.1	15.6	10.4	18.9	17.7	-17.3	-41.4	40.9	3.8	1.1
7th	19.3	8.9	10.2	14	26.5	11.8	19.1	16.8	-25.7	-14.3	0.6	3.1
8th	19.4	-11.1	23.6	-37.5	23.6	-38.2	164.8	-46.7	-158.1	63.4	1.2	-2.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-301.2	-2026.7	-206.8	-2720.9	-71	59.8						
RMS	380	1025.5	371.4	1073.2	909.9	944.1						
1/2 P-P	965.4	2301	972	2310.1	2108.4	2455.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-152.1	-150.9	-1168.4	-160.7	127.5	-1168.4	-160.7	1261.3	-370	1064.7	-309.2	533.8
2nd	309.3	67.3	-305.3	-93.7	-314.8	-18.7	-93.7	317.4	9.3	240.3	13.4	92.6
3rd	-158.2	-195	10.9	133.4	-178.1	-5.8	133.4	-11.2	-29.4	5.1	-16.6	109.4
4th	-23.3	-10.6	42.3	-11.6	-12.4	12.5	-11.6	-14.4	-50.4	-89.1	-73.8	-431.4
5th	28	6.8	-46.7	46	6.6	59.8	46	-64.1	-75.2	-40.9	-35.5	14.4
6th	-11.7	-1.8	-20.7	4.4	16.3	-5.7	4.4	-3.1	-0.3	-9.4	1	-44.1
7th	-0.5	-8.9	16.4	-5.6	-8.6	22.1	-5.6	-8.7	22.5	-7.3	16.6	0.8
8th	16	7	145.5	14.7	26	-69.1	14.7	154.9	-72.7	140.2	-58.4	58.4
												-20.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1311.1	-419.2	0	-3941.8	-509.1	-91.5						
RMS	1181.1	44.1	0	1087.8	36.6	18.2						
1/2 P-P	2767.5	117.4	0	2315.4	98.1	35.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	243.3	-184.4	7.4	-1	0	1309.2	8.5	6.2	-13.1	18.9		
2nd	-9	6.4	13.6	25.5	0	-52	-5.1	-18.5	-1.7	2.4		
3rd	186.1	13.6	35.8	-2.3	0	20.3	-6.3	-26.2	-4.7	2.6		
4th	-606.7	-181	-1.8	-15.1	0	17.5	-2.3	-15.7	0.1	-3.4		
5th	56.1	229.2	3.3	-2.8	0	-53	0.5	5	-1.1	1.8		
6th	-57.2	10.3	2.3	-1.1	0	-0.6	-4	-0.9	0.1	0.2		
7th	8.7	9.8	-0.7	-2.7	0	11.8	-2.5	-1.5	0	0.9		
8th	-83.1	31	-0.7	-2.2	0	-46.7	-0.3	-2.3	0.9	1.1		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3501.3		-1815.2		-434		0		227.6		-5.9	
RMS	201.8		124		72.4		0		83.5		158.3	
1/2 P-P	405		244		142.9		0		206.9		347.7	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-219.8	-106	-140.4	-68.2	-83.6	-37	0	0	-69.9	-25.7	-158.3	-44.1
2nd	58.4	-7.4	33.3	-1.8	5.6	1.8	0	0	-15.1	2.2	-68.1	-11.5
3rd	100.6	-63.4	56.9	-32.3	6.3	-3.8	0	0	-44.4	24.9	-111	46.1
4th	26.5	-3.4	15	-1.8	2.3	-1.5	0	0	-15.1	-0.1	-24.1	-0.2
5th	-6.7	42	-3	17.2	4.7	-12.9	0	0	9.1	-46.9	-2	-1.7
6th	3.5	5.4	1.5	2.9	-1.5	-0.6	0	0	-5.3	-3.6	1.6	4.4
7th	4.5	-0.4	2.4	0.4	-0.4	1.6	0	0	-5.6	0.8	3.9	-0.1
8th	2.2	23.9	0.5	3.6	1.7	-24.7	0	0	-1.8	-43.9	-14.9	47.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	25.8		-85.9		-61.6		-9012.2		-2808.2		-317.7	
RMS	222.9		269.5		219.2		575.4		320.9		22	
1/2 P-P	462.1		541.3		483.6		1040		763.9		51.1	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-155.4	-55.3	-68.9	-55.7	40.4	-21.7	653.3	455.1	180	137	-9	-3.6
2nd	-215	2.9	-296.6	9.4	-192.4	-6	-2.2	30	42	-3.7	-22.6	-11.4
3rd	-92.4	60.4	-123.4	66.3	-166.2	54.7	4.5	18.9	-40.9	-21.4	-11.4	-1.4
4th	26.2	8.7	86.1	9.7	63	24.4	-26.8	27.3	273.1	-200.3	3.2	1.5
5th	-16.7	99.4	0.5	120.3	58.7	75.1	5.6	-41.2	-19.7	87.7	-1	3.6
6th	9.7	8.5	1.4	5.3	11	-8.1	-8.9	-0.4	12.4	2.2	-0.2	-0.7
7th	2.5	1.6	-1.3	-3.6	-18.6	-2.4	21.1	-11	-19.2	13.4	2.3	-0.8
8th	1.2	-18.1	-1.2	-62.9	-5.3	-67.4	18.6	29.1	-20.2	-24.7	0.5	-1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
41/37												
MEAN	-3593		-6655.9		-3560.7		-7135.7		-3856.6		-1624.8	
RMS	195.8		588.8		194.6		540.2		446.1		328.6	
1/2 P-P	417.4		1062.7		422.1		957.4		784.8		690.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	135.7	-192.5	747.9	161.9	164.7	-658.2	-351.8	-300.7	-331.5	-209.1		
2nd	-50.9	1.9	-21	12.3	54.3	7.8	8.2	9.4	26.7	-10.9		
3rd	-63.8	-95.6	-3.5	70.1	-96.6	-3	-14.5	-5.4	19.7	14.6		
4th	27.2	-4.3	27.6	-4.4	25.9	-13.3	1.6	-17.4	181.6	-114.9		
5th	-53.3	-2.4	3.9	-53.2	3.5	-8	50.7	24.8	20.5	-74.7		
6th	-1.1	-4.6	9.8	1	0	14	-4.6	0.5	3.3	-14.1		
7th	-0.4	-3.3	-13.1	0.2	-5.3	25.6	-11.4	-11.6	1.1	-15		
8th	8.6	24.7	29.5	16.7	4.2	19.3	23.1	25	3.6	-0.7		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
41/37												
MEAN	-2009.8		-305.1		0		-8451		-371.8		-67.9	
RMS	326.1		22.6		0		525.9		21.1		9.1	
1/2 P-P	752.7		54.1		0		935.8		48.2		18.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	-240.9	-157.9	14.8	8.3	0	379.4	-618.9	-3.5	7	-4.2	-11.5	
2nd	36.3	-3.4	-19.3	-11.6	0	24.1	0.1	21.8	12.1	1.8	0.3	
3rd	34.5	24.9	10.9	0	0	-17	1.4	4.7	-8.2	0.5	0.1	
4th	256	-166.7	4	2.9	0	-13.8	17.6	4.2	4.7	0.2	0	
5th	7.4	-134	0.6	-3	0	-52	-17.6	1.7	-1.3	0.2	0.1	
6th	-15.1	1.7	-1.3	-1.9	0	-1.7	-2.8	0.7	1	0	-0.1	
7th	-13.3	6.6	-1.4	1.1	0	19.3	-12	1.6	0.7	0	0	
8th	-9	-9.9	0.4	-1.2	0	18.2	26.5	-0.9	-2.2	0	0	

RUN/POINT 41/38	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2180.9	-1000.1	-107.1	0	335	137.4						
RMS	161.2	104.8	65.3	0	80.1	194.5						
1/2 P-P	310.4	198.8	125.4	0	209.6	410.3						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-190	-47.7	-129.9	-31.8	-82.2	-25	0	-77.5	-27.7	-241.1	-55.6	
2nd	9.2	-0.9	4.8	1.4	-4	3.6	0	-9.4	4.4	-42.2	-8.6	
3rd	93.8	-38.3	53.8	-19.4	7.7	-3.4	0	-39.2	14.1	-96.3	22.8	
4th	16.8	5.3	10.1	2.2	2.9	-3	0	-9.6	-7.5	-13.9	-0.6	
5th	13.3	-30	5.2	-11.5	-6.3	8.3	0	-21.8	35.9	0.9	3.9	
6th	4.8	4	1.1	1.9	-3.3	-1.1	0	-8.9	-3.6	3.3	5.5	
7th	-4	4	-1.7	3.2	1.7	2.5	0	2.8	-0.9	-4	-1.3	
8th	6.4	7.4	2.6	1	-1.9	-9.6	0	-8.8	-16.8	2.5	21.9	
RUN/POINT 41/38	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	231	95.2	-102.2	-7814.5	-2763.9	-366.3						
RMS	342.9	360.6	229.4	495.5	343.4	18.5						
1/2 P-P	578.9	626.4	489.1	963.4	926.9	40.8						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-447.9	-42.6	-411.3	-22.1	-57.6	7.3	-145.5	652.4	154.3	178.4	-12.5	-2.4
2nd	-136.8	-9.5	-265.7	0.9	-271.4	10	67.7	28.6	33.4	-8.6	-16.5	-6.2
3rd	-49.5	39	2.4	31.1	-61	25.1	14	20.2	-49.5	-34.4	-8.4	-6.1
4th	19	14.6	50.4	21.5	88.9	12.3	-39	25.2	281.1	-158.9	0.4	3.2
5th	43.3	-64.4	47.1	-83.3	58.8	-65.3	-5.3	53.4	29.9	-114.5	-0.3	-5.5
6th	9	6.3	2.8	2.7	-9.9	-2.8	6.2	-7.9	3.1	9.6	-0.3	0.7
7th	-2.5	4.4	4.4	1.2	-2.2	1.7	-2.9	17.2	6.3	-15	0	0.4
8th	-3	-7.5	-12.4	-23.7	-12.7	-21.9	54.4	16.3	-54.9	-11.5	0.2	-1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-2269.7	-5502	-2226.8	-6007	-2856.4	-1207.4						
RMS	146.9	395.1	149.9	450.5	377	274.3						
1/2 P-P	286.4	793.4	305.1	877.6	733	578.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	77.6	-147	-89.1	99	231	-557.8	203.2	-463.8	42.4	-300.2		
2nd	-7.4	-2.2	-10	19	79.3	-1.4	66.2	4.4	48.3	-16.7		
3rd	-45.3	-97.7	-7.3	47.1	-4.8	-11.3	-2	-0.8	24.1	28.4		
4th	19.8	5.9	23	7.9	-4.4	-7.3	23.7	-17.6	136.5	-82.9		
5th	26.3	10.3	-0.7	37.4	-8.8	-63.6	-0.6	-32.2	2.9	90.3		
6th	-7.7	-1.7	-1.2	1.9	0.7	-5.8	0.7	-0.7	11.6	-16.7		
7th	0.3	3.3	28	-2.8	-4.2	28.2	-5.3	19.6	0.3	-12		
8th	18.6	10.3	9.9	14.8	54.9	9.9	48.2	15.5	24.9	-9.2		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1871.5	-353.9	0	-7364.7	-432	-79						
RMS	285.9	18.9	0	445.1	16.7	8						
1/2 P-P	677.8	45.3	0	850.7	37.8	16						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	-61.1	-223.5	14.8	7.4	0	558.4	217.9	-2.3	10.6	-5.2	-9.2	
2nd	34.4	-9.8	-14.3	-6.2	0	-46.7	-2.5	13.8	6.6	1.2	-0.1	
3rd	40.4	43.2	9.5	4.8	0	-8.6	6.3	8.2	-7.9	0.4	0.1	
4th	189.7	-114.2	-2.8	-0.2	0	-22.4	1	-0.1	2.4	0	-0.1	
5th	0.7	140.7	1.6	3.1	0	60.4	2.4	-4	0.8	0.1	0	
6th	7.3	-3.3	0.3	-0.1	0	13.1	-1	0	-0.8	-0.1	-0.1	
7th	2.3	-15	0.3	0	0	-3.4	13.4	0.4	-0.4	0	0	
8th	-23.6	-11.5	-0.5	-1.2	0	51.6	21.5	-2.1	-1.6	0.1	0.2	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
41/39												
MEAN	-945.4	-3555.4	-876.1	-3981.2	-1092.3	-387.9						
RMS	404.8	651.5	401.2	693	569.4	482.2						
1/2 P-P	1258.1	1567.5	1131.1	1649.3	1335.4	1195						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	-86.6	-307.3	-219.4	299	-75.4	370	-366.7	324.5	-306.6	89.1	-188.1	
2nd	215.3	91.8	-49.5	-234.1	-109.8	337.9	94.5	263.1	82.3	132.6	21.5	
3rd	-50.4	-205.1	17.3	-199.6	14.8	32.6	-18.4	19.3	-2.1	13.8	56.2	
4th	-2.8	-16.7	19.9	2.2	-16.6	5.7	15.7	-5.4	1.1	-61.7	-65.7	
5th	107.7	30.5	-2.1	-43.2	73.5	6.4	-129.1	7.4	-64.1	-31.1	176.2	
6th	-0.1	-10.1	11.9	-0.5	10	22.7	-12.9	14.5	-2.5	8.8	6.7	
7th	4	-5.8	-20.9	-5.8	-8.6	-13.6	-23.7	-8.7	-23.1	7.6	-12.2	
8th	-8.4	6.5	73.1	-18.7	17.1	37.7	69.3	34.1	67.4	23.5	23.9	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1475.6	-415.2	0	-5397	-499.6	-90.1						
RMS	574	33.1	0	680.2	26.7	12						
1/2 P-P	1396.3	92.7	0	1689.1	83.5	25.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	-50.5	-142.8	12.8	-3	0	360	360.1	6.8	8.4	-10.8	-11.5	
2nd	37.5	8.9	-2.4	20	0	-301.5	-81.1	6.9	-14.3	0.9	-1.5	
3rd	28	88.5	24	12.4	0	-47.4	-22.6	9.7	-16.8	0.5	0.7	
4th	-92.5	-83.7	-5.4	-6.6	0	-42.7	-6.6	-3.4	-6.7	-0.2	0.2	
5th	-40.6	300.9	0.5	3	0	123.2	8	-4.9	0.1	-0.1	0	
6th	-13.9	34.8	0.4	0	0	-4.6	-3.3	-0.4	-0.5	0	0	
7th	22.4	17.5	0.3	0.5	0	-12.7	-34.2	1.7	-0.3	-0.3	0.1	
8th	3.3	-23.9	2.9	-0.4	0	26.4	81.4	1.9	-1	0.1	0.3	

RUN/POINT 41/40	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-53.3	327.7	426.1	0	519.6	304.5						
RMS	490.9	292.4	143.3	0	193.2	287.6						
1/2 P-P	1338.4	805.6	418	0	565.2	752.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-202	-396.5	-138.4	-238.9	-76.1	-107.6	0	-72.8	-37.1	-201.4	-61.9
	2nd	-195	-217.4	-109.4	-127.1	-33	-22.4	0	19	71.6	107.3	193.5
	3rd	208.6	32	115.3	21.6	12.3	0.5	0	-97.7	-9.6	-160.5	-49.2
	4th	6.8	-17.1	2	-10.9	-4.4	-1.7	0	-12.7	15.3	16.5	10.2
	5th	70.4	33	23.7	12.6	-32.8	-19.9	0	-103.3	-50	15	8.9
	6th	11	11.4	2.2	4.7	-8.8	-4.8	0	-23.2	-15.2	12.3	12.8
	7th	4.4	-5.8	1.3	-1.4	-2.6	4.1	0	-10.6	8.9	10.5	-9
	8th	9.1	-0.4	2.8	-2.8	-5.8	-6	0	-17	-5.4	11.1	10.2
RUN/POINT 41/40	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	283.8	98.4	-200.6	-4622.4	-2475	-445.6						
RMS	470.9	560.3	379.2	1782.9	682.6	37.6						
1/2 P-P	1111.7	1497.5	1103.9	3492.7	1745.5	97.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-456.7	-85.7	-575.9	-82	-339	-24.8	1939.3	12.8	468.2	-1.9	6.8
	2nd	191	201.4	184	184.8	34.3	98.8	178.4	-98.2	-31.8	9.4	30.9
	3rd	-64.3	-46	9.5	-37	53.4	-5.4	11.6	38.8	-103.7	-17.5	-21.6
	4th	29.8	-36.3	9.9	-43.1	10.4	-16.5	-10.3	-121.1	-223.4	4.8	0.6
	5th	178.1	121.1	207.4	148.7	131	112.9	29.1	190.9	-16.4	5.1	-2.6
	6th	12.7	50.9	-9.5	55	-23.9	-13.7	14.7	14	-38.4	0.7	4.1
	7th	-3.7	15.1	-9.9	37.6	-11.4	42.3	17.9	-1.1	-23.8	-2.6	0.6
	8th	-5.4	6.2	-23.2	3.1	-32.6	-2.1	-51.4	-79.9	53.6	-1.2	1.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-127.6	-2490.7	-27.6	-2904.8	-160	17.1						
RMS	490.6	1732.6	466.3	1703	1411.3	896.8						
1/2 P-P	1291.9	3434.2	1178.5	3287.9		2099.6						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	409.4	-145.7	-1798.4	-1459.9	121.1	385.2	1493.3	-1719.5	1270.6	-1403.2	620.9	-865.7
2nd	207.8	203.3	-290.9	-166.2	-214.8	-209.1	307.8	193.8	225.7	160.2	75.7	62
3rd	23.1	-251.8	13	17.5	-223.9	-58.1	13.8	2	1.5	16.3	-18.9	93.5
4th	-1.8	-18.6	-35.1	27.1	12.5	0.4	-8.1	6.4	-19.1	-34.6	-81.3	-245.7
5th	7	84.5	-59.1	-83.8	-80.7	17.1	70.7	-85.1	24.7	-46.4	-190.6	66
6th	-7.6	-14.8	-3.3	6.1	14.4	11.7	1.6	0.2	-3.3	-1.4	5.9	-25.2
7th	1.1	-3.7	19	-3	-6.3	2.1	16.7	-20.1	11.8	-12.2	-22.6	8.3
8th	7.4	-9.2	68.7	-56.3	15.2	-1.6	78.9	-69.2	75.9	-56.6	34.4	-52.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1283.6	-436			0	-4367.3	-527.3				-87.3	
RMS	778.8	38.9			0	1808.9	31.2				7.4	
1/2 P-P	2055.7	97.5			0	3643.2	78.8				15.8	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	265.3	-610.2	1.3	0.1	0	1824.8	1607	8.3	-3.3	-1.1	-7.4	
2nd	-27.8	19.1	9.6	33.9	0	-285.2	-151.8	-3.4	-0.1	-27.6	-1.6	
3rd	1.9	144.9	18.3	26.4	0	6.4	-14.3	18.9	-0.1	-14	0.4	
4th	-123.7	-326.6	0.7	0	0	12.9	4.5	2.5	0	-1	0	
5th	-296.8	152.7	-0.8	4.1	0	38	103.3	-4.2	-0.2	-0.5	0.1	
6th	-12.5	-19.7	0.3	2.8	0	5.1	-7.4	-0.9	0.2	-1.5	0	
7th	-33.6	40.5	2.2	-1.8	0	11.5	-4.8	-0.1	0.1	-1.7	0	
8th	-32.9	15.6	-1.4	1.7	0	90	-54.8	-1.7	0.2	1.8	-0.3	

RUN/POINT 41/41	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	597.7	-67.9	736.2	-35.1	598.5	-12.5	0	0	603	8.3	-163.2	-36.4
RMS	394.5	-198.1	224.8	-116.7	109.2	-15.9	0	0	189.2	77.5	165.3	226.3
1/2 P-P	945.1	101.3	544.7	49.8	322.1	7.7	0	0	526.1	-44.9	-64.6	-62.3
		1.6		-3.1		-9.4	0	0		-14.4	15.6	20.9
		-38.7		-15.4		10.4	0	0		47.1	13.7	5.4
		0.9		-1.2		-5.9	0	0		-5.4	14.8	8.6
		-0.8		-2.9		-0.4	0	0		-6.4	3	4.5
		7.6		-0.3		4.2	0	0		1.2	-5	14
RUN/POINT 41/41	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	302.7	-69.5	68.7	-81.8	-314.2	-33.2	-3521.8	879.4	-2361	247.2	-6.7	4.6
RMS	487.5	233.7	575.9	192.1	363.2	45.4	1887.7	166.8	981.7	-41.6	10.9	31.2
1/2 P-P	1122.7	-48.8	1377.1	-3.7	948.8	40.4	3628.3	6.9	2398.8	-49.1	-0.3	-24.3
		26.9		60.6		42.3		25.2		374.3	6.3	-6.2
		-71.3		161.2		122.3		96.3		-231.2	4.5	-6.5
		8.3		38.1		26.8		27.9		-48.8	3.8	0.4
		-2.8		17		16.5		11.2		-10.4	0.9	-1.2
		-6.9		-24.2		20.1		-30.7		34.1	0.6	-1.8
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-444.4	-69.5	-579.8	-81.8	-300.9	-33.2	-2298.4	879.4	-189.1	247.2	-6.7	4.6
2nd	240.4	233.7	238.2	192.1	45.4	45.4	424.9	166.8	-147.8	-41.6	10.9	31.2
3rd	-23	-48.8	-3.7	-39.3	40.4	4.5	-22.4	6.9	89.5	-49.1	-0.3	-24.3
4th	56.6	26.9	60.6	19.6	42.3	15.9	23.8	25.2	-247.8	374.3	6.3	-6.2
5th	139.7	-71.3	161.2	-91.1	122.3	-62.7	24.6	96.3	-28	-231.2	4.5	-6.5
6th	42.9	8.3	38.1	8.8	26.8	13.3	13.3	27.9	-23.6	-48.8	3.8	0.4
7th	15.7	-2.8	17	-9.8	16.5	-16.3	-1.5	11.2	-3	-10.4	0.9	-1.2
8th	8.1	-6.9	12.2	-24.2	20.1	-29.3	72.9	-30.7	-75.7	34.1	0.6	-1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	495.2	-1438.2	606.9	-1860.5	732.6	413.5						
RMS	405.3	1973.1	396.9	1824.4	1511.9	1020.9						
1/2 P-P	909.4	4096.2	901.8	3948.6		2518.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	118.6	160.1	-816.8	-2464.3	-151.9	147.1	2311.4	-783.3	1929	-616.6	1000.6	-369.3
2nd	317	188.7	-382.5	-100	-311	-191.2	353.2	130.4	258	108.4	40.5	19.4
3rd	84.5	-147.8	4.6	43.1	-126.9	-81.5	56.8	-3.4	31	-0.3	-45.6	40
4th	-31.8	-7.8	64.2	41.1	-41.7	-5.2	33.3	-13.2	-18.2	-58.7	-256.7	-284.6
5th	52.8	41.6	-68.1	16.7	-53.5	62.6	-13.7	-100.1	-5.6	-44.8	-4	170
6th	-22.3	-6.7	14.7	-1.9	23.6	-1.8	8.3	15.1	0.9	11.7	4.1	-30.7
7th	-6.3	-7.3	-7.7	-8.2	-12.5	2.8	-22.4	3.6	-13.8	1.2	18.7	-8.6
8th	23.4	10	66	-24.8	14.5	13.7	65.3	-35	61.4	-24.1	27.6	-29.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1100.9	-448.4	0	-3389	0	-543.3	-80.4					
RMS	1000.2	40	0	1973.6	0	32.5	7.8					
1/2 P-P	2524.6	91.9	0	4090.6	0	77.8	17.7					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	508.4	-286	3.7	-1.7	0	809.3	2490.6	5.9	-8.7	-2.7		
2nd	-106.7	-1.4	11.5	33.5	0	-357.3	-167.6	-2.6	0.5	-2.1		
3rd	-78.2	77.5	9.8	27.4	0	1.9	-49.7	18.2	-0.6	0		
4th	-379.1	-365.9	5.3	-1.4	0	26.4	15	5.1	-0.3	-0.1		
5th	2.5	263.7	-2.3	4.4	0	64.8	-2.9	-4.1	-0.1	0		
6th	-12.4	-37.1	4.7	2.7	0	-9.1	-9.7	-1.5	0.1	-0.2		
7th	33.8	-6	0.6	0.6	0	-31.5	20.8	0.8	0.1	-0.3		
8th	-35.7	1.3	1	-3	0	60.9	-24.5	3	0	-0.1		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325	
41/42										
MEAN	1929		1561.9		928.9		0		713	
RMS	632.7		365		165.1		0		177.9	
1/2 P-P	1468.9		864.1		480.4		0		585.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325	
1st	582.7	-367.4	328	-215.9	113.2	-91.1	0	0	-29.3	-24.2
2nd	-277.7	-24.2	-162.9	-12.9	-52.4	17.2	0	0	23.5	58.2
3rd	95.1	-86	55.2	-45.5	7.2	-1.2	0	0	-50	52.8
4th	31.6	-8.9	16.9	-7.5	0.9	-5.7	0	0	-28.6	0.9
5th	-4.6	37.3	-3.5	14.3	-0.3	-14.8	0	0	1.4	-46
6th	9.4	-4.7	2.5	-1.4	-8.2	1.9	0	0	-14.9	7.8
7th	3.3	3.6	-0.3	1.6	-2	-0.9	0	0	-2.4	-3.9
8th	-3.8	6	3.1	-0.2	14.7	-8.4	0	0	18.1	-11.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
41/42										
MEAN	386.7		55.8		-475.5		-1459.6		-2160.4	
RMS	471		543.3		380.4		3384.6		1472.9	
1/2 P-P	1273.3		1357.3		1079.6		5889.7		3543.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570	
1st	-397.6	-87.6	-495.7	-122.7	-215.4	-70.6	-4471	1211.8	-557.7	328.7
2nd	226.9	169.8	235.8	157.4	48.5	66.3	466.1	-27	-72.1	-75.2
3rd	-2.1	123.2	25.6	128.1	59.3	121.7	14.7	-83.4	-134.3	31.2
4th	26.3	2	13.6	10.8	-5.5	21.9	-46.7	24.6	325.8	-429.9
5th	-33.8	76.3	-63.8	89.1	-68	55.9	3.1	-38.1	-36.9	86.3
6th	4.1	-23.4	-13.6	-24.9	-22	-22.8	-7.8	-7.9	-0.4	18.7
7th	-2	-6.7	-1	-21.4	20.2	-45.3	-25.8	-37.4	9.8	52.7
8th	17.4	-13.4	40.5	-38.4	50	-43	23.3	-63.9	-46	80.7

RUN/POINT 41/42	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1871.5	438	681.2	-1229.1	-4646.1	-656.1	404	4524.2	-1172.1	3777.6	-901.5	2070.4
RMS	697.4	305	51.9	-405	-24.4	-320.8	-43.8	458.4	17.2	361.9	20.5	130.5
1/2 P-P	1511.6	-97.1	-125.2	-74.9	-30.8	-116.9	103.7	10	85.1	22.5	76.1	126.6
		45.6	8.4	-47.2	76.3	31	-15.7	11.1	6.6	36.2	-43.5	150.6
		-29.2	15	27.9	-19.1	-49.6	-15.2	29.2	16	1.7	9.2	-99.7
		0.7	6.2	3.8	10.9	-17.9	-1.6	2.5	-18.8	-2.7	-7.3	-3.5
		13.3	1.5	-20.8	-11.9	3.2	-5.2	11	-1.3	4.1	-8.7	-10.5
		3.4	21	15.2	-47.6	4.1	-1.7	36.1	-42.3	32.3	-28.6	-6.1
												-11.6
RUN/POINT 41/42	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-774	-440	-452.4	-4.8	0	-7.9	-1366.5	4729.8	-562.5	-0.6	-61.9	0.5
RMS	1513	-33.9	56.2	33	0	27.7	3527.4	-20.4	48.2	-19.3	6.7	-2.6
1/2 P-P	3637.2	177	158	17.8	0	14.4	6322.1	-19.2	132.7	-19.3	16.5	0.4
		186.5		10.1	0	8.1		8.9		8.3		-0.3
		-166.3		3.6	0	1.5		14.3		4.3		-0.1
		-10		-1	0	-5.2		12.8		3.9		0
		-22.1		0.6	0	3.6		23		4.4		0
		-33.2		1	0	-3.1		-31.8		-0.7		-0.1
								-49.9		-1.9		-0.1

RUN/POINT 41/43	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3788	-190.3	-462.5	-94.3	-134.4	-17.6	0	0	820.4	48.6	-115.6	-17
RMS	960.4	-117.4	-583.1	-68.1	-86.2	15.1	0	0	357.6	100.4	282.7	144.3
1/2 P-P	2771.3	-383.1	-59	-212.9	-9.1	-20.6	0	0	1041.9	172.8	25.7	354.4
		-132.5	-75.6	-78.8	-27.4	-18.1	0	0		59.3	29.7	97.6
		-15.7	81.9	-1.9	-68.2	-1.8	0	0		9.7	-9.4	22.6
		10.3	-3.6	4.3	13.8	-2.2	0	0		-9.4	-26.4	13
		11	-0.5	-1	17.6	-17.3	0	0		-28.9	-36.5	35.3
		30.8	-7.5	11.1	16	-15.2	0	0		-39.2	-38.6	35.1
RUN/POINT 41/43	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Chord Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	360.4	5.3	-417.7	33.8	-171.7	26	-1367.4	3592.2	20.1	725.6	31.1	33.5
RMS	712.2	125.8	284.7	124.3	83.3	92.7	727.4	40.6	-98.8	-82	33.1	31.2
1/2 P-P	2109.9	307.7	85.3	255.9	107.3	157.1	100	-147.5	-276.9	145.7	-24.2	32.6
		69	44.4	65.2	25	96.6	276.2	273.3	-2185.9	-2450.7	76.2	-31.6
		52.6	641.7	40.3	458.1	45.4	-57.4	225.9	282.5	-442.4	14.4	-4.7
		28.5	15.4	6.3	25.4	-8.6	-18.9	10.4	19.3	-33.8	4.5	8
		-5.7	4.5	-52.8	21.5	-61.2	7.7	-31.2	17	17.8	-4.3	-3.3
		-9.9	-5.2	-49.2	-11.7	-50.1	-104	106.4	114.3	-115.1	-4.2	-0.5
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	5.3	2nd	125.8	3rd	307.7	4th	69	5th	52.6	6th	-14.4
	7th	-14.5	8th	-17.2	1st	338.6	2nd	302.1	3rd	69	4th	62.5
	5th	523.9	6th	-14.4	7th	-14.5	8th	-17.2	1st	338.6	2nd	302.1
	3rd	69	4th	62.5	5th	523.9	6th	-14.4	7th	-14.5	8th	-17.2

RUN/POINT 41/43	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3645.2	3329.8	3980	2579.1	4699.4	2396.4						
RMS	961.2	3308	975.1	3420.6	2884.9	2847.6						
1/2 P-P	2538	7472.3	2907.2	7876.6		8837						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	195.6	-375.5	-1466.6	434.8	256.3	-3447.4	1313.2	-2869.8	678.2	-1615.5		
2nd	642.9	132.9	-757.3	-2.2	-655.1	-101.9	780.9	-12.3	580.2	-3.5	128	-93.3
3rd	-449.1	53.4	-87.3	101.1	457.8	-72.8	181.2	117.3	264.9	-212.5		
4th	-93.8	-135.6	262.9	-84.1	-144.4	-83.6	-171.5	-299.3	-1418.7	-1274.8		
5th	82.6	188.8	-32.3	-163.6	19.5	-42.2	-41.8	-90.8	-116.3	442.9		
6th	22.2	-13	-8	5.6	10.7	18.7	18.7	10.6	21.5	-51.9		
7th	6.9	12	-47.6	19.3	7.1	-32.6	25.2	-16	36	38.2		
8th	-19.6	-30.6	133.3	-14.6	-60.4	100.3	-76.4	91	-20.5	36.4		
RUN/POINT 41/43	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-6.4	-463.5	0	1098.6	-593.5	-25						
RMS	3501	124.2	0	3587.3	107.1	23.3						
1/2 P-P	10152.4	396.7	0	8692.5	310.2	53.7						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	342	-1071.1	-35.4	-28.9	0	3616.9	1716.9	-24.8	-27.2	-7		
2nd	-110.3	-68.9	55.2	40.6	0	-757.7	-24.6	-31.7	-0.3	-0.7		
3rd	379.5	-434.9	34.1	-35.4	0	158.7	124.9	-18.6	0.4	0.4		
4th	-2135.5	-1605.3	60.2	-18	0	163.4	35.9	-27.4	-0.9	-0.3		
5th	-79	716.6	-11.5	-2	0	163.7	38.9	-6.5	0.2	0.2		
6th	-0.3	-60.4	4.7	5.6	0	0.7	-15.5	-1.5	0.3	0.2		
7th	42.7	84.5	1.3	-1.2	0	-8.8	-32.5	-0.6	0	0		
8th	69.3	-27.7	-1.5	1.8	0	-108.4	62.4	3	0	0.1		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3669.5	-1945.4	-514	86.9	161.5	-145.9						
RMS	352.7	199.2	89	151.6	173.3	237.4						
1/2 P-P	648.1	370.2	200.3	366.3		530.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-80.2	90.1	-59.7	48.4	-53.9	10.3	-43.9	-16.6	-33.3	-24.2	55.8	-43.4
2nd	439.3	6.2	255.3	10.3	63.6	1.3	-52.6	-4.2	-86.1	-6.3	-272.3	-28.4
3rd	90.7	-44.4	50.6	-22.9	4.1	-1.9	-28.5	16.4	-40.2	22.2	-130.7	36.1
4th	50.1	-26.3	27.8	-13.1	0.1	0.4	-20.9	14.2	-29.7	18.8	-32.6	1.8
5th	-66.3	139.5	-27.3	54.6	31.3	-43.6	82.9	-132.6	93.8	-163.6	-5.2	-0.7
6th	-10.8	-7.8	-3	-4.4	5.7	-0.3	12.3	5.4	13.2	6.8	-14.5	-1
7th	9.5	-10.8	1	-4.5	-11.7	2.3	-23.6	9.5	-23.3	13.3	26.6	-7.9
8th	-34.2	44	-3.1	6.8	42.8	-40.2	76.3	-74.6	68.1	-72.4	-105.5	61.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-253.3	-342.3	-168.6	-9477.1	-2918.4	-300.7						
RMS	390.4	433	307.2	656.5	484.6	38.5						
1/2 P-P	769.4	1002.8	761.9	1304.6	1203	82.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	159.5	-41.9	193.5	-28	131.1	-5.4	782.4	-332.4	77.5	-48	10.8	-0.7
2nd	-325.1	-5.5	-289.9	5.6	-124.7	13.7	-275.9	-18.2	68.7	-32.6	-40.5	-27.2
3rd	-196.1	57.7	-213.2	57.4	-170.4	40.1	7.1	9.4	-53.2	-8.7	-3.7	-3.2
4th	-12.1	-11.2	-12.9	-9.4	-24.2	-1.9	-43.3	14.1	453.7	-229.9	-11.1	1.1
5th	-174.6	307.6	-196.7	371.4	-139.3	260.5	64.8	-175.6	-158.7	374.8	2.9	15.1
6th	2.9	-14.8	37.1	-20.6	61.1	-15	22.9	10.6	-33.1	-4.6	2.7	-0.6
7th	8.8	-4.5	-11.2	5.6	-5.8	7.2	-16.7	8.2	14.3	-9.9	-0.4	0
8th	32.8	-24.9	96.9	-111.2	91.6	-113.6	-25.4	62.6	13.4	-58.5	2.9	-4.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
28/12												
MEAN	-3722.3		-7348.6		-3745.2		-7348.8		-4026.5		-1482.1	
RMS	338.5		710.8		350.6		722.5		590.1		461.8	
1/2 P-P	651		1380.8		685.9		1427.1		1067.7		932.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-62.6	18.9	449.6	827.7	-44.4	-49.5	-811	480.3	-685.3	390.8	-367.7	220.3
2nd	-424.7	-0.5	264.2	6.5	443.1	22.7	-293.4	-0.2	-212.7	-8.4	-62.8	-9.4
3rd	-46.1	-87.8	6.6	-4.1	-75.7	48.9	-6.8	-1.4	-4.7	3.4	22.2	4.9
4th	55.9	-36.4	-48.8	46.5	56.6	-30.9	-24.1	30	40.1	-17.1	299.6	-207.7
5th	-149	-51.9	151.6	44	46.6	-159.3	-14.9	201.8	-5.1	97.8	92.7	-296.3
6th	8.6	9.2	0.3	-14.4	-6.5	-5.7	12.8	19.4	8.4	11	-0.9	-12.5
7th	-10.2	-17.6	-33	-8.3	-14.6	7.9	-38.7	-4.5	-31.9	-6.7	-12.6	-5.1
8th	-23.9	59.4	-17.6	59.8	-34.3	51.6	-16.8	65.1	-15	49.9	-3.1	36.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
28/12	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1916.8		-296.2		-3545.1		-8903.7		-346.3		-37	
RMS	549.4		40.4		354.1		685.4		35.6		17.8	
1/2 P-P	1190.4		86.5		677.5		1375.8		77.7		30.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-192.9	129.3	-8.9	8.1	84.1	24.3	-392.9	-788.1	-0.2	-10.3	-14.3	19
2nd	23.7	-11.2	-41.9	-29.7	-441.4	-8.6	320.7	30	34.3	27.3	-1.1	-4.4
3rd	45.4	19.2	1.7	1.5	42.3	93.1	-7.2	5.5	5.2	-5.6	-4.9	1.3
4th	413.5	-322.1	-15.8	3.5	51.5	-25.6	-38.3	23.8	-11.9	3.5	-1.7	-0.7
5th	84.2	-500.6	-5.8	-9.6	159.5	36.7	-170.9	-77.9	10.9	-6.4	-1.2	2.2
6th	-10.3	-28.6	3.8	-0.3	10.5	5.5	5.9	2.2	-2.1	-0.4	0.3	0.1
7th	25.5	4.3	0.6	1.2	8.5	16.6	-27.8	9.8	0.5	0.6	-0.5	-0.9
8th	16.1	-32.5	3.4	-4.6	-29.4	76.2	-23	59	4.5	7.6	0.9	-1.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
28/13												
MEAN	-2353.6		-6439.6		-2368.4		-6476.4		-3237.1		-1184.8	
RMS	431.9		418.8		432.9		478.4		403.6		1022.5	
1/2 P-P	827.8		909.8		817		934.2		803.2		1923.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	212.1	25.4	-95.9	-458.3	-51.3	216.6	572.4	-87.6	475.1	-51.8	221.5	-57.8
2nd	-223.7	-33.5	114.6	-33.4	224.8	57.3	-118	53.5	-69.4	41.6	57.6	14.7
3rd	-250.1	-344.6	63.9	-62.3	-348.9	243.2	-44.8	-62.3	-32.4	-22.1	75.6	82.6
4th	145.9	-53.3	-172.5	124.7	152	-49	3.1	66.1	213.5	-91.4	1123.9	-756.3
5th	-244.1	-62.8	182	63.8	74.7	-229.9	-36.7	250.9	-12.6	116.3	149.8	-376.6
6th	-26.5	30.2	2.4	-1.6	27.6	-32.5	8.8	52.2	-0.4	28.5	-15.6	-46.8
7th	-16.2	-52	36	-40.5	-46.3	14.6	-9.7	-46.5	-4.5	-39.1	-7.9	-11.2
8th	-37.2	-15.2	-75.4	15.2	-33	-16.1	-78.9	15.3	-71.2	12.9	-38.3	32
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/13												
MEAN	-1838.4		-346.9		-2215.5		-8058.6		-410.7		-48.5	
RMS	1429.7		46.5		431.6		480.9		46.2		16.7	
1/2 P-P	2902.4		104		848.7		930.6		98.6		32.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	100.4	-68.6	3.5	2.5	-186.6	-9.4	109.6	569.5	5.9	1.4	-11.2	15.7
2nd	143.7	-11.4	-39	-20.9	-236.1	-44.3	164.4	-29	37.1	17.8	-4.3	-3.2
3rd	164.4	131.9	40.5	12.9	243.8	365.5	-84.2	42.3	19	-38.8	-10.1	0.1
4th	1486.9	-1160	-7.4	-7.9	150.4	-40	-78.5	113.8	-3.9	-7.8	2.1	-4.5
5th	163.5	-634.2	-7.8	-12.1	234.6	32.1	-190.9	-89.8	14.9	-10.7	0.5	4.7
6th	-34.3	-79.3	0.8	-5.9	-31.2	22	7.9	-29.6	-0.7	4.2	0	-0.9
7th	19.3	30	-0.9	6.3	19.7	47.2	-2	2.7	7.6	2.1	-0.7	-0.7
8th	32.1	16.9	5	2.7	-36.9	-8.7	-79.9	5.9	4.7	2.4	-0.4	0.5

MEAN	-1076.4	-333.4	148.2	378.9	405	253
RMS	356.7	207.8	107.2	198.5	240.6	422.8
1/2 P-P	641.8	366.9	224.8	430.4	485.1	776.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-234.5	34.3	-173.1	9.4	-118	-20.1	-134.9	-43	-145.7	-52.2
2nd	136.1	31.8	74.9	21.7	2.3	5.9	-42.1	-1.8	-51.1	-7.2
3rd	287.6	-205.1	160.4	-107	3.3	-13.8	-108.1	61.4	-146.8	90.1
4th	150.7	-11.2	83.8	-6	8.2	-10.2	-58.3	-6.8	-89.5	-4.1
5th	-100.3	126.7	-38.9	49.7	46.8	-39.1	126	-118.3	145.6	-146.8
6th	33.3	-2.8	12.5	0	-15.3	-0.4	-40.1	1.6	-46.9	3.9
7th	25.1	5.6	7.7	-0.7	-15.1	-12.5	-35.2	-21.2	-39.2	-16.6
8th	17.2	-22.1	4.2	-8	-17	10	-30.4	23.8	-28.7	28.5

RRUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
28/14	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$

MEAN	73.7	-153	-338.9	-7370.9	-2913.6	-384.1
RMS	670	765.2	553.6	1275.3	1630.9	52.6
1/2 P-P	1268.9	1488.2	1203.4	2165.8	3131.1	100.8

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-260.6	-87.1	-131.9	-53.2	29.4	-2.9	-1720.1	391.9	-58.3	171.1	-6	8.5							
2nd	-660.8	-32.3	-743.5	-12	-435.5	6.1	26	53.8	214.7	-74.8	-40.1	-11.5							
3rd	-370.1	188.6	-532.4	190.5	-507.8	131.8	139.6	61.1	-330.4	-164.1	-48.4	-18.9							
4th	188.6	24.8	330.3	12.3	163.5	28.8	-180.5	115.5	1957.7	-1029.7	23.3	8.3							
5th	-277.3	292.1	-167.2	353.7	31.2	243.4	136.9	-93.8	-358	183.9	-6.2	9.7							
6th	54.1	-9.7	-0.4	12.4	69.5	4.8	-1.3	-20.5	-23.5	34.9	6.4	-9.1							
7th	48.5	-11.6	-55.8	-55.7	-143.7	-61.6	24.8	20	-23.4	-18.2	2.4	-3.2							
8th	-16.1	8.4	-24.6	32.5	-89	38.3	9.8	-94.7	5.2	90.4	-2.4	3							

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-521.7		14.8		287.7		443.3		462.8		364	
RMS	363.1		213.2		112.8		212.7		255.9		452	
1/2 P-P	636.9		376.8		236.6		430		502.7		843.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-258.9	-11.5	-191.7	-17.2	-125.7	-33.6	-142	-50	-154.5	-58.8	-454.5	-105.3
2nd	146.7	22.5	81	16.3	2.3	4.4	-45.5	-0.9	-56	-5.3	-235.3	-61.1
3rd	249.5	-216	139.5	-113.4	1	-13	-97.1	66.8	-130.6	98.1	-280.2	181.9
4th	158.5	-36.2	88	-20.1	7.9	-10.9	-63	2.5	-95.8	9.3	-134	13.3
5th	-116	144.8	-44.5	57	55.7	-44.7	147.7	-136.2	170.2	-168.6	-19	-15.5
6th	32.3	-13	13	-4.7	-13	2	-36.2	9.4	-43.6	13.6	28.4	2.7
7th	26.8	-1.9	7.9	-3.2	-17.6	-8.5	-41.3	-12	-44.6	-6.9	38.6	23.9
8th	22.8	-5.2	8.7	-5	-14	-7.2	-30.3	-7.9	-31.5	-2.7	37.4	17.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	181.4		-98		-392.2		-6135.4		-2859.3		-398.3	
RMS	742.8		862.4		584.3		1854.1		1652.5		57.2	
1/2 P-P	1387.8		1639.1		1233.6		3087.6		3223		126.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-330.1	-98.7	-152.7	-47.7	37	18.3	-2428.6	903.1	-89.8	297.9	-2.2	15.3
2nd	-765.4	20.5	-894.9	44.2	-505.2	37.4	42.4	96.8	244.1	-98.6	-40.5	-7.2
3rd	-303.2	159.5	-485.5	172.9	-499.8	128.3	174.7	50.9	-389.1	-160.3	-47.1	-16.6
4th	201.8	-2	385.6	-54.3	203	-24.7	-156.4	127	1836.3	-1220.5	34.3	22.4
5th	-327.2	351.4	-237.1	416.4	-13.6	267.2	139	-111.4	-388.2	233.7	-8.3	4
6th	53.2	-32.3	-12	2.8	50.9	0.2	-4.4	-2	-20.6	24.2	5.9	-10.7
7th	45.5	-14.9	-48.3	-40.7	-139.8	-26.5	-4.3	-9.1	5.1	11.7	2.1	-3.2
8th	-11	0.8	-27.9	-16.2	-82.3	-12.6	85.9	-37.1	-75.6	35.6	-2.2	1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-565.9		-3688		-476.2		-4460.2		-1490.5		-549.6	
RMS	355.2		1745.5		342.6		1924.8		1603.3		1331.6	
1/2 P-P	656.3		2902.8		650.8		2917.6		2541.2		2728.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	61	-153.6	-818.1	-2289.9	147	87.7	2560.1	-858.5	2136.3	-679.2	1037.3	-454.9
2nd	-156.2	-26.9	-7.3	-84.6	143.6	37.6	42	110.8	60.6	84.4	142.6	-7.5
3rd	-263.8	-256.4	36.7	-184.4	-249.4	232.3	-168.6	-34.2	-112.1	-0.4	133.7	125.7
4th	161.5	-37.1	-214	137.3	168.1	-34	-5.1	65.9	216.5	-103.6	1168.8	-840.6
5th	-147.4	-98.6	115.7	123.7	91.6	-158.8	-99.7	147.6	-38.7	67	249.3	-212.3
6th	-38.5	11.4	31.3	-10.6	28.6	-5.7	-28.1	21.1	-22.7	8	7	-16.3
7th	1	-24.7	10.7	-31	-28.5	-1	-11	-39.5	-9.2	-35.4	-10.2	-24.3
8th	32.7	9.1	89.6	-45.9	14.2	1.8	90.7	-36	80.8	-24.7	41.7	-2.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1665.1		-385.5		-440.9		-5651.6		-470.7		-50.2	
RMS	1561.2		45.7		364.8		1895.8		48.6		20.9	
1/2 P-P	2999.6		94.1		674.3		3009.5		100.7		37.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	457.5	-367.5	2.5	-5.8	-44.2	159	827.3	2523.2	15.1	-3	-16.5	21.1
2nd	202.3	-66.7	-36.9	-12.1	-169.1	-33.6	5.8	-94.4	37.8	10.2	-4.7	-1.5
3rd	313	169.5	39.4	8.6	270.6	263.7	-59.5	178.2	12.3	-35.5	-8.1	1.1
4th	1553.8	-1285.4	20.1	19.6	159.6	-28.4	-79.2	123.2	32.3	17.6	6.2	3.1
5th	355.6	-366.5	0.9	1.4	166.8	92.7	-131.2	-141.6	-1.4	0.3	0.3	1.7
6th	29.6	-32.3	2.4	-9.1	-27.7	2.4	9.5	20.4	-2.4	7.9	1	-1.8
7th	4.7	12.3	-1	3	-0.4	23.5	-31.8	-15	1.1	-0.9	0.3	0.6
8th	-35.7	18.4	-2.4	1.7	21.6	-1	80.3	-25.7	-1.8	0.3	-0.6	-0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
28/16										
MEAN	165.8	-3268.1	244.9	-3757.4	-874.8	-337.5				
RMS	349.9	2464.4	343.1	2568.4	2140.5	1468				
1/2 P-P	680.1	3950.6	671.8	3986.5	3373	3007.1				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	106.3	-146	-1294.5	-3206.5	149.2	138.9	3337.9	-1380.6	-1105.8	1354.8
2nd	-123.1	-80.4	-34.4	-98.9	110	91	33.5	139.1	111.5	146.9
3rd	-263.6	-287.2	54.6	-216.6	-278.9	228.1	-209.7	-38.3	4.5	142.9
4th	141	10.3	-205.9	86.3	164	13.1	34	43.5	-97.2	1120.6
5th	-90	-41.2	11.1	59.8	26.5	-89.4	-19.8	6.5	-6.8	100.7
6th	-28.8	-7	21.8	-1.8	31.7	12.4	-15.8	-2.4	-5.3	4.9
7th	-4.3	-22.1	10	9.5	-14.3	5.8	-16.6	16.4	7.4	-14.9
8th	39.2	2.3	131.7	-116	41.7	7.4	139.9	-94.8	-77.4	67.2
										-38.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
28/16										
MEAN	-1628.5	-401.4	256.1	-4948.6	-493.3	-46.4				
RMS	1498.9	45.2	354.5	2594.1	45.2	22.5				
1/2 P-P	2928.6	101.3	680.4	4005.5	98.3	42.1				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
1st	596	-566.9	-1.9	-8.9	-87.3	155.3	3404.8	-7.3	-19.4	22.3
2nd	215.3	-61.8	-31.7	-13.3	-129	-80.9	-112.9	13.3	-4.3	-1.1
3rd	345.7	229.4	37.3	9.6	269.8	294.3	-69.3	-31.3	-7.4	0.9
4th	1475.3	-1152.3	13.7	28	136.2	17.8	-96.1	29.3	4.2	4.7
5th	133.1	-89.8	-3.5	8.3	95.8	27.9	-17.9	-6.1	1.1	0.3
6th	18.9	6.2	6.6	-6.7	-21.3	-20	7.5	3.6	1.5	-1.1
7th	0.9	-19.4	1.4	1.4	3.2	19.1	-9.7	-1.4	0	0.7
8th	-57.7	33.2	-6.1	0.7	30.5	-0.7	146.6	-0.9	-0.9	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
28/17	1606.6		1339.8		832		684.5		665.5	
MEAN										
RMS	377.6		239.2		125.2		183.4		213.6	
1/2 P-P	671.4		415.9		273.2		469.5		510.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-336.1	24	-249.4	10.8	-148.7	-30.6	-165.1	-60.2	-176.9	-75.1
2nd	81.7	113.1	40.7	69.1	-10.9	20	-43.1	-6.5	-49.3	-17.8
3rd	273.6	-225.3	152.8	-119.5	1.2	-15.7	-106.4	66.3	-143.7	98.5
4th	134.8	-0.6	75	-4.3	10	-17.2	-50.8	-20.2	-80	-18.7
5th	-52.4	15.1	-19.4	4.8	22.1	-6.8	59.7	-14.6	69	-16.9
6th	25.2	8.9	11.8	2.3	-4.9	-10.9	-21.2	-20.6	-28.7	-20.7
7th	1.3	-6	1.3	-3.4	0.2	-1.4	-2	0.5	-3.2	4.3
8th	33.2	7	12.6	-12.5	-18.3	-40	-40.8	-55.7	-44.4	-42.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
28/17										
MEAN	572		61.3		-564.4		-3805.6		-2912.8	
RMS	814.8		929.7		613.4		3623.6		1701.3	
1/2 P-P	1570		1688.1		1151		5767.6		3506.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	-713.4	-113.5	-316.4	-57.6	28.4	-7.5	-4567.6	2250.6	-148.5	669.1
2nd	-831.9	-80.2	-1167.4	-13.3	-681.9	27.5	209.9	93.6	316.8	-129.9
3rd	-181.3	135.5	-262.2	80	-408.4	96.6	227.6	100.9	-529.3	-206.3
4th	128.1	68.2	359.5	56.9	263.1	3.3	-167	143.5	1602.9	-1441.3
5th	-138.5	23.5	-153	76.6	27.7	17.4	117.2	13.6	-233.1	-53.5
6th	45.4	23.6	10.9	-39.3	-10.4	-11.6	-24.3	24.3	25.6	22.7
7th	6.5	-7.4	3.6	-1.6	-52.4	-6.5	12.8	-14.9	6.9	14.1
8th	-6.6	-47.3	-70.3	-57.8	-62.3	-45.9	211.6	-169.4	-209.1	178.7
									Torsion, in-lb	
									Blade 1, $r/R=0.400$	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
28/17												
MEAN	1608.8		-1666.8		1716.5		-2373.4		353.9		104.6	
RMS	337.8		3606.7		378.5		3652.4		3049.7		1845	
1/2 P-P	623.1		5633.9		671.8		5676.6		4794.7		3934.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	21.8	-219.9	-2075.8	-4625.5	268.7	44.8	4612.8	-2259.9	3869	-1837.7	1840	-1176
2nd	-83.4	-82.6	-185	-105.9	82.9	113.6	230.1	139.2	227	107.7	253.5	-3.9
3rd	-257	-249.5	69.4	-254.4	-295.6	271.4	-221.9	-66.6	-135.6	-27.8	237.6	131.1
4th	145.1	-33.8	-149.1	72.4	139.6	-5.5	14.8	49.6	183.5	-135.9	903.7	-973.5
5th	-21	-78.2	-37.6	68.9	54.8	-3	-112.1	-14.8	-53.1	-8.3	171.4	50.9
6th	-33.6	2.6	47.3	-21.1	22.7	20.4	-23.1	30.4	-16	23.8	27.4	21.9
7th	10.7	-3.4	0.2	-26.5	1.4	7.2	7.4	-25.1	7	-22.4	-9.6	-12
8th	51.2	-12.8	184.9	-181.3	46.3	17.8	193.9	-197.9	185.3	-167.7	96	-82.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/17												
MEAN	-1539.8		-404.4		1668.8		-3392.4		-507.9		-26.9	
RMS	1648.6		46		330.3		3706.7		47.4		32.2	
1/2 P-P	3494.9		118.8		604.5		5710.4		121.6		57.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	780.8	-895.8	4.6	-19	-6.8	183	2033	4806.4	26.2	-11.1	-31.2	31.1
2nd	295.6	-93.3	-13.9	-12.5	-80.8	-82.5	-159.4	-152.3	13	8.6	-1.8	0.3
3rd	491.4	188	36.2	-14	255.8	256.5	-89.1	207.3	-7.8	-25.1	-4.3	4.5
4th	1166.8	-1440.8	26.9	27.6	153.2	-27.3	-32.9	76.5	34.9	30.8	5.9	4.8
5th	286	59.4	-3.4	14.3	34.2	80.8	36.3	-60.3	-12.4	-1.7	2.1	-0.7
6th	55.4	6.9	-2.2	-4.2	-24.5	-2.4	17.9	-3.9	-1	5.3	0	-1.4
7th	-10.4	11.7	2.6	2.3	-9.9	2.9	12.6	-16.7	1.2	-2.6	1.6	0.8
8th	-85	70	-1.3	-4.3	44.3	-15.7	210.3	-161	-3.7	-0.8	1	0.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2951.9	2176.5	1164.7	825.8	777.9	799.4						
RMS	447.5	286.1	132	171.2	199	488.8						
1/2 P-P	1101.9	646.9	306.2	414.7	459.8	1009.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-329.4	331.1	-250.1	204.9	-145.8	53.1	-162.2	-26.8	-169.9	-52.2	-564.3	-130.9
2nd	-191.7	113.5	-123.8	66.2	-57.6	23	-25.3	-0.9	-15.2	-10	-106.7	-82.1
3rd	245.6	-210	137.2	-112.2	4	-17.9	-90.6	57.4	-123.3	89.3	-279.9	187.1
4th	54.6	-2.7	31	-4.8	13.1	-19.8	-9.5	-24.3	-24.1	-18.4	-61.3	25.9
5th	-103	-26.9	-39.8	-11.7	33.1	12.2	100.8	36.5	120.6	43.1	0.4	-2.6
6th	-3.7	-9.2	2.4	-5.1	5.8	-0.8	9.8	3.9	8.8	5.6	-2.8	-4
7th	10.2	10.2	1.5	-0.3	-9.6	-15.9	-19.4	-28.3	-22	-24.6	16.9	36
8th	-2.5	9.3	8.7	4.9	22.8	-0.9	32	-7	25.1	-8.3	-39.8	-0.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	673.5	76.3	-655.8	-1679.3	-2652.5	-428.1						
RMS	788.9	805.7	525.7	4109.6	1076.4	129.5						
1/2 P-P	1527.1	1669.4	1134.6	6406.6	2321.8	445.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-842.9	-59.3	-454.4	22	-19.7	44.5	-5238.7	2386.6	-125.3	690.7	7.1	47.7
2nd	-608.1	-99.9	-933.5	-89.1	-589.5	-12.4	561	12.7	273.3	-109	103.6	5.5
3rd	-157.8	200.1	-215.3	154.4	-352.8	82.3	224.1	86.3	-546.7	-167.7	14.1	-50.7
4th	27.6	116.3	178.7	147.8	141	95.6	-152.2	26.6	701.2	-767.9	70.4	-86
5th	-228.6	-72.4	-253.1	-61.4	-46	-15.5	133.1	24.1	-244.4	-163.8	-25	-34.4
6th	-1.1	-14	-15.1	-14.1	-20.8	10.3	-2.7	27.3	20.9	-57.7	-24.8	5.2
7th	13.7	-2.9	-16	-40.7	-69.1	-65.2	-9	25.9	9.7	-33.8	-3.2	4.8
8th	23.8	3	42.5	-18.6	49.6	-41.2	149.3	103	-160.6	-106.2	11.4	4.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	3103		627.1		3286.1		-446.9		2069		883.5	
RMS	281.1		4656.3		289.3		4727.5		3945.7		2125.3	
1/2 P-P	649.8		7086.5		639.9		7135.7		5923.8		3902.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-91.5	-78.1	-2646.1	-5988.7	143.6	-14.7	5887.8	-3086.4	4939.7	-2523.4	2374.1	-1597.9
2nd	141.8	-83	-468	-110.9	-115.6	77.4	531.5	89.9	465.9	74.8	362.2	-26.2
3rd	-216.2	-211.1	35.6	-214.4	-256.6	199.6	-220.1	-69.9	-141.3	-27.4	207.2	130.3
4th	76	1	-114.5	169.9	79.6	-6.9	69.8	43.5	97.8	-89.8	211.4	-706.4
5th	0.7	-95.1	-12.6	84.4	62.7	35.6	-91.7	-12.8	-39.1	2.3	144.7	106.3
6th	4.4	-3.3	30.4	-28.6	-11.2	-0.3	5.3	8.3	3.1	3	29.3	-1.1
7th	10.8	-23.3	7.9	-24.8	-14.6	-12.3	-26.6	-31.4	-22.8	-24.7	-15.5	-0.2
8th	6.6	34.1	144.9	73	-5	19.6	160.3	90	135.1	88.6	57.7	46.2

RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1165.2		-380.3		3073.5		-1558.6		-514.5		-4.3	
RMS	1430.6		70		339.6		4530.4		116.2		48.6	
1/2 P-P	2915.5		242.4		744.3		7054.3		366.9		116.9	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1043.6	-1197.5	11	-18.4	79.1	176.7	2688	5762.5	48.9	-12.8	-39	47.7
2nd	320.5	-98.6	62.1	15.6	195.1	-97.4	-560.2	-94.8	-95.6	-17.4	13.4	4.7
3rd	436.8	202.4	6.7	-1.8	239.4	227.1	-78.5	202.9	38.7	26.2	8.8	-4.7
4th	193.2	-1008.5	50.5	-26.4	66	12.9	-11.9	86.5	60.8	-60.3	16.5	-12.8
5th	243.1	144.9	5.4	19.1	-13.1	100.9	27	-87.8	-30.7	15.6	-1.1	-2.9
6th	47.1	-16.4	-20.1	-1.5	14.8	-6.5	-19.8	13.3	26.9	-4.2	-6	-0.2
7th	9.5	32.4	4.1	-2.8	-9.3	17.6	-41	-1.3	-5.7	-6.1	-0.7	0.2
8th	-73.4	-42.8	6.7	2.6	-6.8	33.6	141.1	93.8	9.6	0.7	0.7	2.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-339.2	131.1	-618.1	465.8	487.3	372.2						
RMS	359.7	226	121.1	139.4	156.8	375.3						
1/2 P-P	693.7	414.7	290	328.3	356.6	740.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-316.6	288.5	-226.4	167.3	-120.1	-19.7	-136.3	-23.3	-143.4	-41.2	-421.4	-100.1
2nd	75.2	39.7	38.9	25.7	-29.9	2.7	-35.9	2.8	-40.8	-2.2	-155.1	-52
3rd	184.5	-134.1	102.9	-69.6	-57.2	36.1	-68.6	42.6	-94.7	62.9	-213.2	110.3
4th	106.8	-4	59.3	-3.9	-33.2	-10.8	-37.5	-12.8	-59.3	-12.7	-82.5	-12.7
5th	-18.6	46.5	-7	19	24.8	-37.1	29.9	-43	33.6	-52.6	-7	-1.6
6th	21.9	0.6	9.3	0.7	-19	-2	-22.8	-1.6	-28.3	-2.2	10.8	3.3
7th	4.3	-2.9	-0.6	-0.6	-10.8	3.7	-13.6	3.3	-15.7	7.3	14.5	-0.5
8th	10.5	12.5	5.6	-1	-6.8	-29.4	-6.5	-34.5	-9	-28.4	-2.2	42
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	358.3	47	-341.8	-5618.7	-2872.6	-410.5						
RMS	591.5	702.2	521.3	1461.3	1001.2	45.5						
1/2 P-P	1058.7	1266.4	1090.6	2305.9	2145.2	95.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-564.4	-59.2	-320.1	-13.8	4.6	23.8	-1983.1	490.6	13.6	208.4	3.8	13.8
2nd	-560.8	-33.8	-852.8	6	-565.1	26.2	124.5	0.5	171.1	-66.8	-37	-12
3rd	-137.5	87.8	-171.1	51.1	-305.7	48.6	120.7	36	-281.5	-94.4	-31.5	-16.8
4th	94.3	52.8	291.4	46	258.3	9.8	-122	91.7	1112.2	-708.1	26.4	15.3
5th	-55.7	98.7	-61	147.3	93.8	100.3	33.3	-42.4	-84.2	72.9	-0.2	-4.7
6th	43	3.1	7.9	-18.7	-38.2	-4.1	-20.2	-0.9	25.2	-0.2	2.4	-4.2
7th	3.2	-3.1	-3.6	1.9	-73.8	0.1	16.2	-8.5	-2.5	4.8	-2.7	-0.5
8th	7.9	-22.7	-22.8	-47.8	-11.6	-41.1	95.4	17.8	-97.2	-6.3	0.3	-2.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
22/19												
MEAN	-376.6	-3313.7	-293.9	-4060.1	-1190.4	-575.5						
RMS	300.5	1449.4	305.4	1572.8	1309.9	880.1						
1/2 P-P	627.2	2288.1	653.6	2426	2077.4	2034.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	-228.2	-208.1	-377	-1989.2	200.8	-231.5	2165.4	-427.2	1799.9	-345.9	827.1	-257.2
2nd	-75.4	-34.9	-89.2	-2.5	77.1	56.1	116.9	-8	115.3	-13.1	123.6	-47.5
3rd	-160.5	-185.1	31.4	-133	-208	154.2	-110.4	-19.4	-72	2.1	95.9	83.8
4th	102.4	-15.1	-162	79.6	108.2	-8.4	-8.4	32.5	122.4	-62	687.7	-477.5
5th	-69.9	-14	40.2	54.5	38.6	-19.6	-54	32.2	-20	14.8	110.9	-22.1
6th	-18.1	11.1	24.1	4.3	15.1	1.7	-8.5	0.8	-4.8	-5.1	8.3	10.7
7th	3.1	-10.8	5.9	-9.9	1.5	-1.3	9	-19.5	7.9	-23.7	-19.3	-24.6
8th	-1.4	3.9	90.9	5.6	13.9	19.5	96.4	14.4	82.7	12.1	46.5	22.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
22/19												
MEAN	-1736.8	-393.4	0	-5151	-483.4	-80.9						
RMS	919.9	40.9	0	1580.2	39.6	21.5						
1/2 P-P	1856.8	86.7	0	2361.2	83.3	38.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	314.9	-235.7	-2	-4.5	0	0	348.8	2191.8	13.3	-6.3	-18	22.2
2nd	147.8	-77.2	-33.7	-13.1	0	0	-103.4	13.1	29.1	12.2	-5.1	-2
3rd	243.8	121	30.4	12.4	0	0	-34	125.2	17.1	-24.2	-5.3	-0.7
4th	911.2	-725.1	20.5	17.4	0	0	-29.4	38.6	24.9	14	5.2	2.4
5th	159.8	-41.7	1.4	7.9	0	0	-20.3	-47.6	-6.4	0.1	0.2	0.5
6th	14	0.1	0.2	-3.3	0	0	6.7	6.3	-0.6	4.3	-0.2	-0.5
7th	-9.8	13.1	3.7	0.4	0	0	9.5	-24.5	0.7	-2	-0.2	0.6
8th	-39	-9.1	1.6	-2.5	0	0	94.1	19.7	0.7	0.1	-0.1	0.2

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
34/31						
MEAN	-3488.3	-1810.3	-436.5	189.3	207.3	-91.3
RMS	518.1	313.8	141.9	112.1	122.3	225.3
1/2 P-P	828.4	509.2	247.8	304.3	312.4	480.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-579	272.4	-363.3	155.7	-182.8	50.8
2nd	267	15.6	155.3	13.8	36.4	3.4
3rd	173.1	-138.2	97	-71.9	4	-7.9
4th	64.2	-20.2	34.9	-10.1	0.2	-1
5th	-12.6	17	-5.1	6.9	6	-4
6th	12.9	-14.8	4.9	-5.1	-6.7	5
7th	15.8	-8	4.7	-3.2	-11.2	0.9
8th	-14.6	-14.4	-2.6	-2.7	12.3	13.4
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
34/31						
MEAN	-209.6	-312.2	-167.9	-8474.7	-2719.7	-327.7
RMS	282.9	293.7	228.2	995.9	552.7	32.6
1/2 P-P	516.6	588.7	540.5	1578.2	1091.2	72.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	33	-44.9	79.2	-36.4	89.3	-14.3
2nd	-286.4	11.7	-278.6	27.3	-153.8	25.7
3rd	-228.7	116.3	-240.9	117.1	-198.4	85.2
4th	49.3	-17.6	73.9	-26.4	40.6	-11.9
5th	-22.2	31.2	3.1	25.4	34.8	5.4
6th	29.6	-18.3	29.4	-8.6	42.1	-8.7
7th	14.8	-11.4	-30.6	9.5	-52.8	23.1
8th	9.5	7.4	28.9	36.7	3.5	56.5
				-21	-1.4	-0.2
				26.6	1	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
34/31												
MEAN	-3608.2	-6101.7	-3553.1	-6670.7	-3526.3	-1470.3						
RMS	462.7	1041.8	454.7	1014.1	829.3	600						
1/2 P-P	764.1	1659.7	771.4	1605.2	1303.5	1156.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	-256.1	-488.7	302.5	1427.3	477.6	-241.7	-1377.2	351.7	-1132.1	261.5	150.2	
	-256.9	-17.7	105.4	41.5	266	32.3	-103	-44	-61.1	-38.7	-35.7	
	-148.2	-164.9	28.6	-2.9	-159.9	146.1	-2	-31.1	-1.6	-12	31.8	
	67.7	-24.2	-78.2	55.6	71.7	-22.2	-3.2	21.1	66.7	-33.4	366.6	
	-28.1	-11.8	13.5	-5.2	16.8	-25.6	-14.1	9.4	-4.8	1.5	-21.4	
	-17	16.9	0.3	-8.6	16.2	-13.5	-11.5	12.1	-6.4	5.1	-11.1	
	-5.5	-17.8	29.5	-6.3	-16.4	8.6	15.8	-1.2	13.7	-3.6	-13.9	
-11.6	-17.3	-24.9	-7.9	1	-7.6	-23.7	-9.5	-16.1	-8.8	-3.6		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	
34/31												
MEAN	-1905.7	-319.7	-3367.7	-7871.7	-373.8	-45.2						
RMS	563.5	33.4	507.9	1014.4	30.3	20						
1/2 P-P	1164	74.8	819	1618.5	69.3	36.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	-424.9	79.3	0.4	18.3	310	532.5	-263.5	-1394.3	-12.5	-6	9.6	
	64.4	-24.9	-35.3	-17.2	-273	-17.4	141.1	53.3	31.9	15.9	-2.2	
	51.9	36.6	14.5	1.8	151	177.6	-37.2	-7.8	8.2	-14.4	0.1	
	484.6	-429.7	-7.8	2.5	69.7	-19.6	-33.5	26.1	-5.4	0.7	-1.4	
	62	-45.7	-1.1	-1	20.1	6.2	-13.7	-7.8	1.9	-2.5	1.3	
	12.1	-26.7	2.6	-1.6	-13.8	12.6	10	0.3	-2.2	0.9	0	
	-8.4	2.7	-0.2	1.7	7.9	14.5	13.7	15.3	2	-0.1	-1.2	
5.9	6.3	0.5	1.3	-13.1	-2.3	-12.6	-3.1	0.6	0.6	-0.1		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2248.7	-1041.9	-123.8	323.4	315.3	93.8						
RMS	351.4	210	103.7	140.1	166.5	324.3						
1/2 P-P	614.6	335.4	208.3	276.3	331.9	637.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-309.5	93	-208.1	46.2	-128.3	-0.3	-114.3	-27.8	-118.1	-37.3	-270.3	-77.3
2nd	110.4	64.4	61.1	40.9	2.3	13.9	-29.6	-0.2	-38	-7.5	-135.2	-50.1
3rd	260.4	-195.8	146.9	-102.4	7.8	-13.1	-85.9	54.2	-122.9	82.4	-282.2	152.3
4th	105.9	-9.4	59	-4.5	7.2	-6.7	-38	-2.9	-58.9	-2.2	-89.7	-3.1
5th	-58.5	55.7	-23.3	23.2	23.4	-11.5	66.6	-41.9	77.1	-55	-3.6	-11
6th	25.4	-16.2	11.1	-7	-8.5	1.5	-26.5	11.8	-31.1	15.5	22.4	-0.1
7th	18.5	-4.5	5.9	-2.6	-11	-2.7	-26.7	-2.8	-30.8	0.6	28.6	11.4
8th	-3.9	-2.4	1.9	0.2	8.4	2.1	12.1	4.8	9.1	5.4	-9.5	-11.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-18.2	-176.9	-211.5	-7449.3	-2718.2	-367.4						
RMS	428.2	486.5	391.9	202.2	1019.7	44.6						
1/2 P-P	807.4	976.1	846.6	559.1	1903.2	92.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-228.4	-77	-136	-54.4	15.6	-4.2	-46.5	139.8	138.2	91.8	-7.5	-3.7
2nd	-394.4	-10.1	-479.7	15.4	-325	29.8	19.8	-48.2	128.5	-45.3	-36.1	-14.5
3rd	-268.8	165.8	-342.4	161.1	-347.4	113.1	50.4	54.1	-180.3	-93	-42.4	-14.5
4th	101.3	14.9	217	0.4	139.9	1	-126.9	55.8	1245.4	-592.8	12.3	0.4
5th	-145.3	107.3	-85.9	125.1	66.1	70.5	104.6	-42	-237.7	78.7	-6.8	5.2
6th	56.4	-32.4	13.7	-10.3	46.3	-0.5	13.1	11	-41.4	-8.5	1.6	-5.8
7th	32	-12.9	-29.3	-20.4	-107.7	-0.1	-16.4	0.5	9.5	-5.9	2.2	-3.6
8th	1.3	8.8	24	3	-22.4	6.7	7.8	16.5	-9.1	-12	1.6	-0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2342.1	-5146.8	-2285.5	-5604.5	-2586.4	-1114.3						
RMS	323.3	197.6	317.3	179.1	169.7	659.8						
1/2 P-P	583.7	560.8	561.6	463.5	414.2	1266.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-41.8	-202.1	33.7	191.8	-15	114	-83.1	101.2	-69	-17.6	-67.1	
2nd	-103.1	-69	40.3	95.7	84.2	20.1	-41.1	33.4	-31.7	79.8	-38.9	
3rd	-235.5	-265.7	51	-269.3	224.5	-35.2	-53.1	-22	-17.8	77.8	69.9	
4th	114.4	-15.6	88.8	117.8	-16	-10.8	36.2	137.7	-51.6	772.8	-449.4	
5th	-62.2	-69.7	97.7	73.4	-58	-110.7	58	-53.1	27.2	177.7	-58.1	
6th	-34.1	13.2	-15.9	27	-9.1	-24.2	6.6	-17.6	2	-6.2	-6.6	
7th	-3.3	-21.8	-18.3	-20.2	3	-22.7	-20.4	-16.1	-22.3	-1.3	-18.8	
8th	8.1	11.9	10.8	4.1	13.4	7.7	21.1	7.5	18.1	0.2	12.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1793.3	-357.4	-2141.6	-6922.4	-425.2	-52.8						
RMS	921.2	42.2	337.9	160.7	38.1	16.5						
1/2 P-P	1786.7	102.2	621.3	495.1	82.7	34						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	-80.7	-81.6	10	12.7	241.7	50.2	3.9	-18.3	9.3			
2nd	99.8	-39.4	-32.6	-15.7	-66.6	58.3	13.9	-4.2	-2.3			
3rd	151.2	88.3	41.8	8.2	267.3	43.3	-34.3	-8.1	-1.9			
4th	1030.4	-683.1	2.5	6.1	-13.6	49.7	8	3.3	-1.1			
5th	289.9	-126	3.8	-2.4	54.4	-104.5	4.2	-0.9	2			
6th	18.7	-11.3	2.3	-4.9	12.5	16.7	-0.8	-0.1	-0.7			
7th	16.9	15.7	-1.9	3.5	16.9	-32.4	3.2	-0.1	0.1			
8th	-1.2	-8.2	-0.1	0.4	9.7	21	-0.5	-0.8	0.4			

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-938	-226.4	210.8	473.3	437.7	299.9						
RMS	392.2	244	123.9	153.3	180.6	382.1						
1/2 P-P	620.1	378.9	221.3	309.6	379.7	749.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-421.9	97.4	205.5	128	-54.1	27.5	18.2	-15.6	-421.9	97.4	205.5	128
	121.6	47.7	-185.5	-1.3	68.1	-10.3	-5.9	-7	121.6	47.7	-185.5	-1.3
	-285.3	53	70.9	-20.8	10.7	3.5	0.2	1.6	-285.3	53	70.9	-20.8
	63.4	31.1	-97.5	-0.7	27.6	-3.6	-2.6	1.6	63.4	31.1	-97.5	-0.7
	-162.7	-3.9	2.7	8.6	24.2	-12.2	-17.7	20.5	-162.7	-3.9	2.7	8.6
	0.8	11.4	-11.7	-8.5	-18.2	1.9	-0.3	13	0.8	11.4	-11.7	-8.5
	-142.7	-33	-72.3	-45.6	65.4	-33.7	-34.9	34.4	-142.7	-33	-72.3	-45.6
	-34.8	2.6	54.6	-10.6	-58.3	8.1	1.1	22	-34.8	2.6	54.6	-10.6
	-48.5	-3.6	-155.6	-99	-15.1	-7.9	3	9.8	-48.5	-3.6	-155.6	-99
	-401.2	-155.6	-239	-15.1	-7.9	3	9.8	-36.4	-401.2	-155.6	-239	-15.1
	-96	-52.1	157.9	-15.1	-7.9	3	9.8	-36.4	-96	-52.1	157.9	-15.1
	-99	-3.2	75	-38.7	39.4	-30.9			-99	-3.2	75	-38.7
	25.1	39.4	-30.9						25.1	39.4	-30.9	
	31.2	19.5							31.2	19.5		
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	230.1	-27.3	-308.4	-6384.7	-2773.9	-405.8						
RMS	561.5	674.4	493.9	946.2	969.3	48.5						
1/2 P-P	1051.5	1284.4	1017.8	1734.6	2114.3	89.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-448.1	-96.5	-254.1	-41	12.8	-493.7	-345.9	247.2	-448.1	-96.5	-254.1	-41
	15.2	17.4	-774.4	116.3	11.8	195	-117.7	-0.6	15.2	17.4	-774.4	116.3
	111.5	47	324.3	-143.9	60.2	21.1	10.4	13.6	111.5	47	324.3	-143.9
	-143.9	144.3	-117.7	-31.4	-1.3	13.6			-143.9	144.3	-117.7	-31.4
	60.2	-31.4	-0.6	-13.7	-15.2	36.4			60.2	-31.4	-0.6	-13.7
	21.1	-1.3	-32.1	-15.2	-36.4				21.1	-1.3	-32.1	-15.2
	10.4	13.6	50.1	36.4	32.8				10.4	13.6	50.1	36.4
	-48.1	-96.5	-254.1	-41	12.8	-493.7	-345.9	247.2	-48.1	-96.5	-254.1	-41
	15.2	17.4	-774.4	116.3	11.8	195	-117.7	-0.6	15.2	17.4	-774.4	116.3
	111.5	47	324.3	-143.9	60.2	21.1	10.4	13.6	111.5	47	324.3	-143.9
	-143.9	144.3	-117.7	-31.4	-1.3	13.6			-143.9	144.3	-117.7	-31.4
	60.2	-31.4	-0.6	-13.7	-15.2	36.4			60.2	-31.4	-0.6	-13.7
	21.1	-1.3	-32.1	-15.2	-36.4				21.1	-1.3	-32.1	-15.2
	10.4	13.6	50.1	36.4	32.8				10.4	13.6	50.1	36.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
34/33												
MEAN	-1010.8		-4092.7		-924.6		-4587.9		-1672.4		-781.8	
RMS	337.5		872.2		335.3		1014.1		848.9		740	
1/2 P-P	568.7		1621		556		1765.4		1551.5		1503.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	-76.5	-313.4	-487	-1083	315.7	-54.8	1284.6	-572.7	1076.2	-463.1	455.3	-316.2
2nd	-99.5	-47.5	-55.4	-1	90.2	73.7	98.4	-18.4	98.9	-14.1	122.5	-51.9
3rd	-204	-204.8	35.1	-117.6	-200.2	194.1	-100.4	-36.6	-66.1	-8.3	96.6	79.1
4th	114.4	-5.5	-196	63	138.3	-1.6	-6.7	28.5	134.4	-48.9	736.6	-397.7
5th	-94.8	-51.2	80.3	90	50.4	-78.2	-77.4	95.8	-38.6	47.7	142	-111.9
6th	-20.6	7.4	18.7	-13.1	32.2	-10.1	-21.3	17	-14.5	9.4	1.4	-5.7
7th	-10.7	-27	-0.9	1.3	-17.3	6	-24.9	3.2	-20.2	-3.5	-10	-13.2
8th	-10.7	24.5	-21.4	94.2	-15.4	12.4	-27.6	112	-30.2	97.9	-23.5	54.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
34/33												
MEAN	-1744.3		-391.9		0		-5911.5		-472.5		-51.6	
RMS	903.5		43		0		960.4		40.9		17.2	
1/2 P-P	1845.8		92.5		0		1745.4		81.1		32.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	115.4	-260.8	3.1	6	0	0	476.3	1238.7	4	-3.7	-18.8	10.9
2nd	135.2	-65.9	-36.4	-13.8	0	0	-74.4	22.2	35.2	12.5	-5.2	-2.2
3rd	210.8	99.1	37.6	12.8	0	0	-53.2	109.2	19.5	-29.8	-6.2	-2.6
4th	990.1	-611.8	15	14.4	0	0	-76.9	46.7	19.9	11.2	4.9	1.2
5th	217.4	-219.6	2.5	-0.4	0	0	-78	-106.9	0.4	1.1	-0.5	1.2
6th	19.6	-21.6	2.6	-6.2	0	0	18.4	3.4	-1.5	3.7	0.9	-1.2
7th	11.4	1	2.1	2.3	0	0	-25.4	17.2	2.6	-1.8	0.3	-0.8
8th	11.5	-40.2	1.3	1.5	0	0	-37	107.2	3	-0.9	-0.3	0.3

RUN/POINT 34/34	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.400$
MEAN	-225.4	215.2	390.7	553.3	503.5	397						
RMS	390	250.6	131.5	139.6	159.5	391						
1/2 P-P	610.1	413.6	239.2	328.8	379.7	754.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-446.7	152.9	83.5	5.5	-149.8	-39.1	-55.5	-434.6	-110			
	84.7	51.7	32.9	11.6	-34.7	2.8	-3.5	-167	-58.8			
	194.8	-134.9	-70.5	-9.4	-67.9	40.2	60.1	-225.7	110			
	112.3	-4.7	-4.5	-11.3	-37.7	-12	-12.6	-85.6	-11.5			
	-2.9	22.7	0.1	-6.4	10.4	-19.4	-24.6	-3.2	-0.6			
	22.6	-2.4	9.4	-1	-23.6	-0.6	1.2	14.9	4.6			
	4.6	-3.7	-0.9	2.8	-14.8	4.5	6.1	18.4	-1.2			
	11.7	12.1	0.2	-19.2	-6.7	-31.3	-27.4	3.5	36.9			
RUN/POINT 34/34	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	362.8	44.7	-353.6	-5628.6	-2772.8	-421.1						
RMS	600.3	703.2	513.2	1439.1	1033	45.9						
1/2 P-P	1042.4	1248.2	1061.2	2390.9	1992.5	88.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-578.5	-78.7	-331.2	-40.7	-0.9	-564.6	-290.2	263.2	1148.2	27.7	12.9	7.5
	-571.2	-29.1	-861.4	20.8	-564.6	-290.2	263.2	1148.2	27.7	12.9	7.5	4.3
	-143.1	90	-165.2	58.6	-290.2	263.2	1148.2	27.7	12.9	7.5	4.3	-0.2
	99.3	47.2	295.3	31.4	263.2	1148.2	27.7	12.9	7.5	4.3	-0.2	-3
	-11.2	41	-13	80.8	120	35.3	-2.7	-71.5	-1	-1	-1	-1
	47.6	1	9.3	-20.9	-45.4	-1	5.4	0.1	2.3	2.3	2.3	2.3
	2.5	-3.6	-6.1	1.7	-74.4	-12.3	0.2	18.2	-2.9	-2.9	-2.9	-2.9
	4.3	-18.5	-25.4	-39.1	-8.9	93.7	25.7	-97.2	-0.2	-0.2	-0.2	-0.2

RUN/POINT 34/34	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-288.7	-328.2	-804	-1803.5	-196.5	-93	-3872.3	-903.4	-1055.6	-737.4	-561.6	-482.9
RMS	319.7	-79.7	-109.4	-12.9	342.8	63	1511.6	-12.7	1266.9	-15.8	867.6	-63.8
1/2 P-P	528.7	-163	43	-132.3	573.8	163.5	2419.6	-114.8	2012.2	-9.5	1917.8	90.1
		109.2	-184.2	73.3		-14.7		9.9		-67.6		-430
		-40.7	19.5	55.6		-5.2		0.3		3.1		33
		-25.2	9.9	-10.3		1.2		-1.6		-3.9		7.2
		1.7	-21.3	-2.4		-0.4		-10.1		-14.3		-17
		8.5	95.4	12.5		27.9		23.2		24.6		16.5
RUN/POINT 34/34	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1687.9	-387	-405.3	-0.2	-138.3	341.8	-5241.4	1953.2	-491.2	-8.2	-48.1	13.5
RMS	920.9	-90.5	41.8	-35.1	338.6	-37.4	1499.8	-8.4	39.8	11.9	18.4	-2.7
1/2 P-P	1868.2	110.2	80.6	33	562.6	201.3	2364	-136.2	81.6	-24.9	32.3	-2
		-641.6	18.1	17		-14		-53.7		13		1.8
		962.8	-41.6	18.1		15.3		-42.9		13		1.8
		25.6	3.3	8.2		10.5		45.8		1.5		-0.2
		159.3	0.4	-4.2		10.7		-58.9		4		-0.5
		19.7	0.8	0.3		10.7		5.7		-3.2		0
		8.1	3.2	0.3		10.7		-15.2		0.6		0.9
		-37.8	0.9	-3.5		-1.1		-24.2		-1.2		0.6
		-13.5	0.9	-3.5		-1.1		85.9		0.6		0.6

RUN/POINT 34/35	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	420.8	616.8	555.3	628.9	565.1	482.5						
RMS	353.3	227.8	122.6	145.4	167.3	419.5						
1/2 P-P	633.7	393.7	264.7	343.5	379.2	846.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-384.4	97.5	-269.6	51.5	-157.4	-9.3	-46.3	-136.6	-460.1	-62.4	-6	-136.6
	118.9	74.3	63.8	47.3	-3.1	15.4	1.5	-77.2	-191.4	-6	-191.4	-77.2
	206.6	-130.8	113.6	-67.9	0.1	-8.1	42.1	108.3	-239.7	62.7	-239.7	108.3
	103	6.8	57	1.5	7.4	-10.5	-16	-18.4	-60.4	-19.4	-77	-18.4
	-12.3	2.6	-3.5	0.3	7.2	-1.9	-3	2.3	17.7	-4.2	-2.9	2.3
	8.7	-5.2	3.1	-1.3	-5.3	2.1	5.9	-0.5	-15.3	7.4	9.9	-0.5
	13.8	-3.5	2.4	-1.4	-13.9	0.4	0.9	6.3	-29.3	3.2	30.9	6.3
	-6.1	10.2	7.3	4.7	23.8	-6	-13.4	4.9	27	-14.1	-40	4.9
RUN/POINT 34/35	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	460.3	103.3	-415.4	-5041.7	-2798.7	-434.9						
RMS	665.7	756.9	510.7	1972.9	1039.5	46.8						
1/2 P-P	1168.4	1372.8	1002.4	3275.3	2108.7	103.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-670.8	-95.9	-418.1	-35.8	-23.7	12.2	-2436.4	1311.1	82	432.6	2	13.9
	-615.7	-76	-933.4	-47.6	-596	-3.9	102.9	15.1	210.6	-85.1	-40.7	-15.4
	-117.5	98.2	-91.9	53.2	-250.5	41.1	138.1	48.5	-309.7	-156.1	-27.8	-21.4
	86.5	49.3	255.7	70.9	247.8	30.2	-130.7	74.6	1149.3	-619.5	21	19
	-31.1	3.9	-55.7	17.1	70.9	31.6	43.3	34.3	-100.1	-86.6	1.8	-7.9
	21.7	-3.3	15.3	-18.4	-46.5	-17.2	-11.8	-4.1	7.7	13.2	-0.3	-4.2
	11.6	-11	-29.4	5.4	-83.7	0.6	28.5	-1.7	-26.5	7.8	-0.8	-2.4
	26.1	-1.1	42.1	-32.1	59.3	-20.5	107.8	171.8	-117.3	-171.7	3.5	-3.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144
34/35												
MEAN	364.8	-2984.1	473.7	-3496.6							-693.7	-432.6
RMS	311.9	2026.4	318.1	2027.8							1688.6	1015.1
1/2 P-P	571.3	3292	592.3	3227.6							2623.1	2089.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-25.6	-283.1	-1270.1	-2544.1	289.7	-41.3	2560.9	-1248	2139.7	-1016.2	968.3	-666.4
	-103.2	-79.6	-99.7	-12.1	110.6	87.1	77.6	21.8	88.2	11.9	123.8	-48
	-175.9	-222.8	38.5	-161.9	-234.4	167.7	-149.4	-27.1	-101.6	2.7	118	121
	104.5	6.4	-146.1	41.6	101.3	8.8	-22.6	4.7	116.2	-53.9	685.8	-349
	8.5	-41.9	-28.6	51.9	18.5	18.5	-46.6	-57	-17.1	-28.8	78.8	95.1
	-12.1	-1.2	8.5	-6.7	6.5	-0.6	-13	5.8	-8.7	2.4	-4.2	4.8
	-1.3	-9.3	28.9	-20.9	-14.8	5.9	6.2	-12.2	7.3	-11.5	-0.1	-17.4
	7.2	42.2	126.6	145.4	-3.8	25.7	126.1	161.5	104.6	153.2	42.4	81.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 4, r/R=0.400	Blade 3, r/R=0.450	Blade 4, r/R=0.400	Blade 3, r/R=0.144	Blade 4, r/R=0.144	Blade 3, r/R=0.144	Blade 4, r/R=0.144	Blade 3, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 2
34/35												
MEAN	-1685.7	-420.1	0	-4613	0	0	1175.3	2668.5	15.8	-11.6	-21.3	14.4
RMS	937.9	41.3	0	2074.8	0	0	-100	-21.8	32.9	15.2	-4.4	-2.4
1/2 P-P	1885.2	76.8	0	3383.5	0	0	-45.2	138.5	17.6	-15.2	-3.5	-2.7
							-32.6	31.4	20	16.6	4	2.5
							27.9	-46.4	-6.9	3	1	-0.3
							-2.7	9.1	1.1	1.7	0.1	-1
							-1.4	8.1	3.3	-2.5	0.1	-0.2
							110	171.6	2.5	-5.3	-0.4	1.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	343.4	-530.2	-1.2	-5	0	0	1175.3	2668.5	15.8	-11.6	-21.3	14.4
	158.2	-85.1	-34.9	-16.3	0	0	-100	-21.8	32.9	15.2	-4.4	-2.4
	273.2	155.6	28.7	18	0	0	-45.2	138.5	17.6	-15.2	-3.5	-2.7
	942.6	-522	11.5	20.3	0	0	-32.6	31.4	20	16.6	4	2.5
	143.9	140.4	-0.7	8.7	0	0	27.9	-46.4	-6.9	3	1	-0.3
	10.6	-7.1	-2	-3.1	0	0	-2.7	9.1	1.1	1.7	0.1	-1
	-8.5	4.3	1.4	3.3	0	0	-1.4	8.1	3.3	-2.5	0.1	-0.2
	-52.6	-58.5	3.8	-1.5	0	0	110	171.6	2.5	-5.3	-0.4	1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1103		1040.4		729.3		705.5		627.7		572.9	
RMS	505.6		327.4		167.5		164.2		181.5		446.1	
1/2 P-P	789.1		482.7		308.6		366.9		393.6		820.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-640.5	20.9	-428.1	6.1	-224.4	-31.4	-180.1	-55.9	-178.4	-70.9	-500.1	-146
2nd	114.5	86.2	61.5	54.2	-3.8	17	-39.5	0.3	-49.7	-8.2	-205.2	-75.1
3rd	216.8	-151.3	120.5	-80	1.1	-11.9	-80.5	44.1	-113.5	67.8	-243.6	117.2
4th	82	4.4	46.4	0.2	7.8	-9.8	-29	-11.4	-47.3	-13.2	-65	-5.6
5th	-36.4	14	-13	5.4	16.7	-3.1	43.1	-8.5	48.4	-12.8	-5	-5.2
6th	8.2	-3.7	4.9	-2.4	1	-1.3	-4.6	-0.4	-6	0.5	1.8	0.4
7th	20.7	0.9	6.4	0	-12.5	-3.3	-28.2	-6.9	-33.1	-5.3	28.8	17
8th	10.5	1.2	9.5	-3.1	5.3	-11.1	2	-14.6	-3.9	-11.9	-5	15.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	555.9		148.9		-474.7		-4373.2		-2809.6		-440.1	
RMS	720.4		780.4		503.7		2275.8		982.7		41.1	
1/2 P-P	1281.3		1398.8		957.8		3625.5		2222.6		84.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-766.5	-87.4	-481.1	-42.6	-21.5	1.6	-2396.9	2115.6	204.5	606.2	-1.2	14.7
2nd	-628.8	-68.4	-953.8	-12.9	-605.5	20.1	182.4	19.3	237.9	-106.6	-29.2	-13.1
3rd	-109.3	102.8	-73.1	49.9	-251	61.2	150.2	66.6	-346.6	-139	-29.8	-17.8
4th	67.6	32.5	203.7	41.3	209.5	-3.5	-92.4	47.2	918.3	-612.1	22.5	14.1
5th	-86.1	31.9	-105.8	49	32.1	24.9	47.4	37.7	-112.2	-74.9	-2.3	-4.6
6th	12.9	1.1	13.3	-5.4	-33.4	12.2	-7.5	4.9	7	7.4	-1.5	-1.3
7th	17.6	-6.1	-34.5	-11.8	-85.7	-3	12.4	7.4	-11.6	-4.3	-0.6	-3.3
8th	10.1	-6.7	-3.2	-24.1	0.5	-35.6	169.9	-14.5	-166.2	22.4	-1.1	-1.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	1042		-2081.7		1174.1		-2662.1		22.7		-164.7	
RMS	456.9		2313.8		462.3		2293.2		1920.5		1122.8	
1/2 P-P	730.9		3624.4		746.2		3622.1		3030.8		2245.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	15.4	-546.1	-2017.2	-2548.3	557.8	11.8	2521	-2009.5	2127.7	-1656.6	892.1	-1047
2nd	-104.7	-92.1	-165.3	1.5	109	103.1	177.5	24.1	172.5	15.4	185.2	-44.9
3rd	-187.4	-232.6	45.9	-171.7	-237.2	166	-138.1	-57.1	-85.8	-24.3	141.8	91.3
4th	81.4	11.7	-132.6	51.6	79.5	6.4	-12.7	-2.8	100.6	-76	583	-435.3
5th	-19.1	-28.4	-18.4	53.2	22.4	-23.5	-42.8	-34.8	-18.4	-23	70.4	28
6th	-6.1	-5.9	11.6	-12.8	4.3	0.3	-3.8	19.9	-3.6	12.3	-7.6	-0.9
7th	-6.1	-16.3	24.8	-6.2	-24.1	-1.8	11.3	22.6	7	16.6	-3	-11.5
8th	27.9	13.7	165.9	-44.6	14.4	11.8	176.6	-37.2	162.5	-21.5	72.8	-13
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1597		-425.6		0		-3992.2		-520.7		-33.4	
RMS	976.8		35.4		0		2337.1		32.7		24.1	
1/2 P-P	1899.7		68.5		0		3687.9		71.4		38.7	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	237.8	-781.9	0.2	-7.9	0	0	1950.7	2645	18.2	-14.3	-29.4	15.3
2nd	198.1	-96.5	-27.3	-15.3	0	0	-175	-26.6	24.1	14.6	-2.9	-2.3
3rd	305.8	126.4	27	15.4	0	0	-55.3	151.9	14.9	-11.5	-3.1	-2.2
4th	785	-637.4	12.4	14.2	0	0	-29.6	30.3	15.2	9.1	4.1	1.7
5th	119	48.6	-1	3.4	0	0	20.6	-65.5	-2.8	-0.9	1.1	0.2
6th	5.1	-15.2	-1.8	-2.3	0	0	-1.7	-6.7	1.6	0.8	-0.4	-0.7
7th	-5.4	-9.2	1	3.3	0	0	-6.7	22.8	2.1	-2.9	0.8	-0.2
8th	-72.7	12.1	0	-1.9	0	0	167.1	-8.9	-0.8	-4.3	-0.1	1.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	
MEAN	1827.2	1490.8	912.8	787.5	693.7	663						
RMS	399.8	260.4	136.4	160.9	181.4	450.3						
1/2 P-P	660.3	406.7	257.4	343.1	377.5	845.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-453.5	124	-317.4	72.3	-177.4	-3.4	-164.3	-47.1	-167.1	-66.6	-517.4	-157.1
	44.8	66.4	20.4	41.6	-15.9	14.1	-35.3	3	-39.1	-3	-166.3	-59
	239	-151.6	133.7	-79.8	5.4	-13.6	-81.7	41.6	-116.4	64.7	-251.4	113.5
	70	13.9	40.7	4.7	10.9	-11.1	-18.5	-17	-34.2	-20.3	-54	-15.9
	-39.3	56.9	-14.4	22.9	22.4	-15.6	52.4	-49.5	57.4	-62.7	-7.7	-4
	7.6	2.7	4.6	0.5	1.5	-4.6	-3.8	-8.2	-5.9	-9.5	-0.7	8.3
	22.9	-3	4.8	-1	-19.4	0.2	-39.4	-0.7	-42	1.9	44.4	11.1
	6.7	10.2	4.5	0.1	1.2	-15.5	-0.1	-25.1	-4.5	-21.5	-2.2	26.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.400$		
MEAN	628.4	172.1	-534.9	-3548.8	-2787.5	-441.8						
RMS	739.3	760.3	506.3	2859.5	888.4	33.7						
1/2 P-P	1281.8	1433.5	1008.6	4406.7	1871.9	69.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-843.7	-110.9	-553.5	-57.9	-35.6	-2.2	-3485.6	2016.6	92.4	622.4	-10.3	13.2
	-553.8	-62.5	-867.9	-27.7	-598.8	6.6	261.1	40.1	222.8	-110.5	-11.3	-7.3
	-122.5	91	-100	48.7	-262.6	56.4	123.4	95.2	-371.4	-153.3	-30.7	-16.3
	38	46.3	160.5	58.7	191.2	4.2	-84.4	41.6	800.5	-519.6	18.3	7.7
	-101.1	124	-110.2	163.9	27.6	109.4	28.4	-29.6	-77.5	43	2.2	0.8
	15.6	8	9.9	-0.7	-38.4	24	-14.2	32.4	5.2	-19.9	-1.1	1.2
	14.4	-3.1	-46.9	-5.5	-101.1	-2.7	7.6	-10.1	-16.1	7.6	-0.2	-3.8
	8.8	-13	-6.3	-33.5	-4.2	-41.3	51.9	-19.3	-57.1	20.1	-0.5	-1.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400				
MEAN	-241.7	-348.9	-203.5	-8186.6	-2795.6	-350.9				
RMS	189.8	204.5	141.1	656	248.8	49.7				
1/2 P-P	411.2	456.7	309.2	1135.5	624.6	92.8				
HARMONIC										
1st	COSINE 57.6 SINE -100.6	COSINE 95.3 SINE -84.3	COSINE 76.7 SINE -34.9	COSINE 355.8 SINE 838	COSINE 38.1 SINE 243.9	COSINE 37.7 SINE -53.8				
2nd	COSINE -203.6 SINE 45.7	COSINE -203 SINE 56.9	COSINE -118.4 SINE 38.4	COSINE -47.4 SINE 61.6	COSINE 42.2 SINE -6.8	COSINE -19.5 SINE -1.8				
3rd	COSINE -44.6 SINE 21.8	COSINE -50.4 SINE 22	COSINE -55.9 SINE 33.1	COSINE 22.1 SINE -10.7	COSINE -31.5 SINE -24.3	COSINE -11.5 SINE -3.1				
4th	COSINE 3.7 SINE 0.3	COSINE 20.7 SINE -2.1	COSINE 27.9 SINE -7.6	COSINE -8 SINE -8.5	COSINE 121.9 SINE -16.4	COSINE 4.1 SINE 4.5				
5th	COSINE 8.1 SINE -108.7	COSINE 6 SINE -126	COSINE 12.5 SINE -86.9	COSINE 35.9 SINE 60.4	COSINE -53.4 SINE -142.2	COSINE -3.3 SINE -2.7				
6th	COSINE 14.7 SINE -2.4	COSINE 8.3 SINE -5.3	COSINE -7.4 SINE -4.2	COSINE 7.3 SINE -14.7	COSINE -6.4 SINE 23	COSINE 2.2 SINE -1.2				
7th	COSINE 2.2 SINE 0.8	COSINE 12.4 SINE -0.1	COSINE 8.7 SINE 0.7	COSINE -23.1 SINE 20	COSINE 24.5 SINE -14.5	COSINE 0.5 SINE 0.4				
8th	COSINE -5.1 SINE -0.9	COSINE -21.4 SINE 7.8	COSINE -17.6 SINE 8.4	COSINE 11.6 SINE 7.6	COSINE -12.3 SINE -5.7	COSINE -1 SINE 0.2				

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3398.9		299.9		3422.8		-496.9		2077.9		952.6	
RMS	477.9		6318.2		440.1		5649		4743.1		2767.8	
1/2 P-P	927.6		9541.9		891		8474.6		7083.3		4712	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	34.9	-5390.6	-7083.2	110.7	384.9	5408.1	-5829.7	4600	-4838.6	2242	-3039.1	
2nd	-97.2	-627.8	-202.2	-291.7	154.2	688.7	13.3	576.5	19.9	436.1	-40.4	
3rd	-244.9	147.3	-277.9	-236.9	160.5	-210.7	-27.1	-147.5	12.9	134.9	179.3	
4th	24.3	-50.7	92.6	74.2	22.3	-21.7	-23.6	132.6	-70.6	743.8	-261.6	
5th	-84.6	-122.4	36.7	74.7	-62.5	-90.2	-10.2	-21	-23.6	261.1	-74.2	
6th	-21.1	1.9	-12.6	18.5	1.4	8.9	0.1	15.5	-3.9	36.6	-30.6	
7th	6	-29.6	-5.1	-27.3	-7.9	-3.3	5.8	-3.4	5.7	-9.8	12.4	
8th	8.5	10.4	9.2	4.1	13.4	73.4	8.2	61	12.9	25.3	-10.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1075.7		-438.2		3467.2		-1661.1		-539.3		-37.3	
RMS	1948.9		90.5		432.4		6176.4		84.5		37.9	
1/2 P-P	3707.8		282.6		874.1		9380.3		339.6		84.8	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-2172.8	989.1	-63.5	-3.8	-444.6	-2.1	5310.1	6884.1	15.7	-77.4	-21.4	43
2nd	-84.7	338.9	75.3	20	226.7	-126.8	-681.9	-155.2	-58.9	-18.7	8	-3
3rd	234.4	334.4	-11.3	40	144.3	232.7	-158.1	198.7	26.8	9.7	-4.4	-7
4th	-406.9	1025.2	42.4	-22.7	96.1	19.6	-58.9	37.8	32.8	-11.5	4.3	3.4
5th	-107.1	390.6	16.1	19.1	70.1	101.8	-23.1	-59.3	-7.3	8.1	2.5	-3.2
6th	-33.7	40.2	-13.7	3.3	-19.1	0.8	33.9	-23.1	9.2	-1.1	-1.8	-1.1
7th	25.1	-0.2	1	-6.4	-7	26.6	9.3	42.9	-2.6	-1.7	-1.3	0.5
8th	-20.6	-39.8	4.8	0.4	4	17.1	81.8	21	2.8	-1.1	1.2	1.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400						
MEAN	394.7	-59.9	-672.1	-1592.4	-2458.7	-484.2						
RMS	679.8	766.5	587.5	5087.6	1539	128.7						
1/2 P-P	1276.4	1604.1	1280.3	8269.7	3320	402.2						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-681.1	-142.4	-530.8	-108.1	-86	-49.5	-5592.8	4439.1	-404.6	1221.4	102.2	42.9
3rd	-532.1	-227.3	-811.3	-170	-708.8	-52.9	645.2	-135.5	337	-44.5	61.7	-48.3
4th	-113.1	38.4	-146.8	-29.6	-228	-29.8	207	106.8	-294.2	-278.8	-60.1	-32.2
5th	53.3	50	214.8	93	214.8	28.4	-81.9	190.2	1157	-1004.1	21.8	19.1
6th	-226.6	105.7	-250.4	161.6	-60.3	149.1	67.6	-24.9	-228.2	15.6	-0.1	-3.4
7th	27.9	5.6	16.7	-4.9	-7.3	36.1	-30.7	17.6	49.3	-4.1	-9.1	-1
8th	22.4	3.5	-39.5	-16.2	-122.8	-57.1	24.1	38.9	1.5	-41.1	-2.6	4.3
	25.1	0.6	38.2	-16.8	25.5	-33.6	78.1	16.3	-80	-21.7	5.5	-3.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1748.1	-1518.1	1872.9	-2311.2	462.8	262.5						
RMS	344	4312.8	327.4	4334.9	3626.9	2109						
1/2 P-P	651.4	6475.3	619.8	6449.4	5424.7	3750.8						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	327	34.3	-3167	-5188.4	-25.6	303.5	5049.2	-3439.1	4256	-2827.6	2138.6	-1846.5
2nd	60.7	-110.7	-354.4	-150.9	-104.6	95.7	383.9	197.1	329.4	163.9	284.3	52.7
3rd	-132.1	-276.6	114.9	-197.1	-271.6	120.3	-167.3	-111.8	-116.8	-64.7	109.7	123.2
4th	94.8	25.7	-96.2	73.1	83.8	34.1	-16.5	11	142.7	-57.4	791.7	-380.7
5th	-56.7	-60	-8.1	76.3	46.8	-32.4	-51.4	20.4	-17.4	11.4	119.7	-20.5
6th	-25.5	-1	18.2	-24.3	18.5	1.6	11.3	27.7	12.1	20	-2.7	-6
7th	-0.1	-23	-17.3	4.8	-19.5	-3.7	-34.6	9.8	-29.9	2.3	-20.3	-8.1
8th	13	7.1	75.8	-17.5	5.1	13.2	71.7	-12.1	64.1	-2.9	39.6	-16.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1395.7	-435.7	1905.5	-3248.9	533.9	-56.5						
RMS	1532.9	39.1	307.3	4292.2	43.1	19.1						
1/2 P-P	2936.3	88.2	580.7	6426.6	77.8	38.6						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1020.3	-1385.9	-31.3	16.3	-257.2	-32.4	3120.2	5185.9	1	-49.6	-18.8	16.9
2nd	248.2	-25.4	1.9	6.6	67.1	-109.3	-340.9	-163.6	3	2.8	-2.7	4.1
3rd	276.9	196.3	22.5	8.8	121.6	271.7	-123.4	156.9	12.4	-6.9	-0.1	-1.4
4th	1072	-603	24.6	21.3	96.1	26.4	-8.6	-2	21.8	21.7	4.7	4.2
5th	167.1	-48.5	-3.7	3.7	47.5	48.6	23.4	-76.7	-1.8	-4.6	2.3	-1.7
6th	0.8	-14.2	1	-4.4	-20.9	-4.3	16.8	-20.1	-0.8	3.4	0.3	-0.8
7th	11.2	-11.2	2.5	-0.8	-0.6	22.8	-16	17.1	1	-2.4	0.3	-1.3
8th	-26.7	0.5	-1.9	0.5	8.1	12.3	70.7	5.9	-1.4	-1	0.1	0.5

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
16/11						
MEAN	1860.3	1497.4	902.3	778.9	665.6	513.1
RMS	316.5	196	116.2	156.4	182.3	420.2
1/2 P-P	640.3	388.7	231.7	341	384.8	749.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-131.5	-278.3	-112.8	-177	-106.2	-125.7
2nd	-101.6	91.3	-66.8	54.2	-45.2	3
3rd	253.8	-104.5	139.1	-53.2	-0.4	18.9
4th	79.7	17.9	44.9	8.7	-97.6	-9
5th	-46	32.8	-18.3	13.7	-27	29.2
6th	16.6	-0.2	6.2	0.5	53.9	-16.4
7th	20.4	2.3	-21.8	-7.5	-19.4	-24.4
8th	6.3	-2.4	6.5	0.1	-40.6	0.2
					-42.1	0.5
					2.6	-1.2
					2.7	1.3
					-0.7	-5.6
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
16/11						
MEAN	327.7	-47.6	-574.9	-3527.9	-2697	-447.2
RMS	640.2	725.8	588.2	4289.2	1277.5	38.7
1/2 P-P	1146.7	1332.2	1155.8	6468.8	2389.1	82.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-668	-196.6	-531.5	-174.9	-5020.7	3359.5
2nd	-497.8	-145.5	-792.2	-86.8	415.8	159.1
3rd	-187.1	93.3	-169.9	27.3	173.4	141.2
4th	39.3	26	197.7	68.3	-133.2	10.9
5th	-100.1	71.2	-126.1	95.7	51.1	-20.9
6th	31	6	18.9	-4.5	-6.1	23.8
7th	16.7	0.9	-40.4	7.5	2.6	23.2
8th	10.9	2.6	-4.6	1.9	69	-5.2
					-69.8	2.7
					-1	-0.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
16/10												
MEAN	317.7	-3034.8	400	-3360.4	-496.9	-58.6						
RMS	256.6	2559.6	252.6	2584.2	2158.3	1307.9						
1/2 P-P	476.6	3925.2	468	3967.3	3255.3	2485						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	180.1	-47.4	-3139.5	50.2	157.8	3105.1	-1899.5	127.4	2609.6	-1557.2	1300.3	-1047.1
2nd	-5.3	-87.6	-79.5	-15.8	76.3	162.3	127.4	143.1	105.3	160	26.8	26.8
3rd	-144.4	-242.9	-159.5	-255.6	142.6	-151.9	-43	-114.5	-7	71.7	125.1	125.1
4th	74.3	25.8	33.8	64.8	35.4	-31.6	30.7	104	-39.3	666.5	-337.5	-337.5
5th	-17.4	-39.4	56.4	43.9	-6.1	-52.5	-50	-19	-34.1	116.8	46	46
6th	-17.9	1.8	4.9	11.4	-1	-0.6	5.4	-1.7	3.8	-5.5	-3.1	-3.1
7th	6	-16.7	14.9	-13.6	-3.8	14.2	0.1	10	-1	-16.6	-9.6	-9.6
8th	9.2	1.4	11.9	6.8	8.8	108.5	16.1	94.7	22	57	-1.2	-1.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
16/10												
MEAN	-1463.8	-427.2	492.2	-4679.6	-515.3	-76.1						
RMS	1070.8	39.6	242.9	2550.9	38.9	12.5						
1/2 P-P	2126.6	94.1	442	3857.8	83.2	26.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	601.6	-808.9	-24.8	-115.1	88.3	1717.5	3156.2	-9.9	-37.2	-11.8	10.8	10.8
2nd	156.5	-32.4	-20.6	-4	-86.6	-198.4	-64.6	20.1	12.5	-5	0.4	0.4
3rd	205.7	172.9	27.8	138.5	246.5	-54.2	150.7	19.3	-13.5	-2.5	-1	-1
4th	914.9	-540.1	8.4	74.9	31.1	1.8	14.6	11.1	15.7	2.8	2	2
5th	181.3	69	-0.2	13	28.7	46.6	-35	-0.3	0	1.2	0	0
6th	0.4	-2.3	0.8	-17.6	-3.3	-3.1	9.7	-1.2	3	0.4	-1	-1
7th	-16.5	-2.5	2	-2.3	15.5	22.8	0.1	0.1	-2.2	0.6	-0.2	-0.2
8th	-35	-3.1	-1.6	21	15	102	15.6	-1.4	-0.9	-0.2	0.5	0.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.375$	Blade 1, $r/R=0.444$	Blade 1, $r/R=0.500$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.644$	Blade 1, $r/R=0.715$	Blade 1, $r/R=0.785$
MEAN	439.3	614	544.4	615	532.4	323.7						
RMS	250.5	159	94	138.3	164.6	368.3						
1/2 P-P	476.2	313.6	203.7	306.6	358.5	676.9						
HARMONIC												
1st	-194	-124.4	-89.6	-86.3	-104.9	-115.6	-100.7	-114.5	-115.6	-344.4	-215.4	
2nd	-7.7	64	39.5	12.4	-41.8	-2.4	1.8	-46.9	-2.4	-134.4	-52.4	
3rd	222.2	-109.2	-56.3	-8.7	-93.7	32.8	32.8	-127.1	50.4	-272.9	79.6	
4th	64.8	23.1	11.2	-5.3	-24.3	-16.9	-16.9	-36.6	-19.9	-50.6	-24.8	
5th	-28.3	1.4	0.9	2.2	29.3	5.7	5.7	35.6	5.4	2.2	-8.1	
6th	16.1	-0.8	1.1	1.3	-14.5	2.2	2.2	-16.8	2.4	7.9	-0.3	
7th	15.8	1.1	-0.4	-4.8	-31.8	-9.3	-9.3	-34.4	-6	34	17.8	
8th	7.6	8.8	6.7	-9.7	3.2	-20.4	-20.4	-0.1	-20.7	-7.3	24.5	
Torsion, in-lb												
Blade 1, $r/R=0.400$												
RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb
16/10	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.880$	Blade 1, $r/R=0.960$	Blade 1, $r/R=1.040$	Blade 1, $r/R=1.120$	Blade 1, $r/R=1.200$	Blade 1, $r/R=1.280$	Blade 1, $r/R=1.360$	Blade 1, $r/R=1.440$	Blade 1, $r/R=1.520$	Blade 1, $r/R=1.600$
MEAN	179.4	-113.1	-464	-5116.8	-2752	-438.2						
RMS	535.1	603.6	503.6	2496.5	851.2	38						
1/2 P-P	985.1	1151	966.5	3838.2	1720.7	86.6						
HARMONIC												
1st	-540.7	-182.2	-423.8	-131.1	-45.9	-3019.3	1797	-178	579.2	24.3	-14.6	
2nd	-429.7	-79	-671.8	-58.6	-619.3	209.2	103.7	206.5	-63.3	-24.5	-7.3	
3rd	-195.7	96.5	-172.9	60.9	-218.1	152.4	54.6	-274.5	-187.6	-25.2	-18.1	
4th	37	31.1	167.9	65.1	206.8	-68.9	-2	879.9	-310.8	14.7	14	
5th	-50.7	-1.2	-68.9	10.5	37.7	38.7	36.6	-102	-79.5	1.2	-0.9	
6th	28.3	1.6	20.5	-4.7	-23.4	-10.4	-1	8.9	10.8	1.9	-3.3	
7th	13.7	3	-36.7	-3.9	-96.2	26	-8.2	-10.2	17.9	-1.6	-0.5	
8th	10.4	-6.2	-7	-31.6	-18.1	104.5	28.2	-105.5	-28.7	0.1	0	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-390.9		-3675.6		-321.3		-3985.8		-1064.2		-270.3	
RMS	253.9		1798.1		247.6		1878.1		1570.5		1004.5	
1/2 P-P	495.7		2857.6		482.3		2953.9		2403.6		2016.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	148.1	-118.1	-1252.9	-2191.1	107.3	122	2266.7	-1354	1907.5	-1110	944.2	-763.7
2nd	-18	-66.8	-166.6	-56.8	9	59	153.1	76.3	138.6	61.6	152.9	9.9
3rd	-134.2	-246.4	43.2	-118	-261.5	124.1	-105.3	-37.1	-81.1	-8.1	46.4	110.3
4th	68.1	24.1	-112.6	30.6	61	31.3	-40.7	33.8	87.3	-25.5	631.8	-272.1
5th	-23.5	-49.6	-10.7	69.9	54.4	-12.9	-87.4	-2.2	-40.4	-4.2	140.5	22.9
6th	-14.3	-1.7	22.3	8	5.8	3	-4.1	6.3	-3.1	2.2	-9	-3.1
7th	6.2	-15.6	-19.2	-16.7	-11.1	-3.6	-17.4	-11.5	-12.7	-11.1	-12	-11.5
8th	10.9	7.4	92.2	26.2	0.7	10.8	93.2	20.1	84	24.5	53.8	7.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1525		-414.7		-205.5		-5296		-497.2		-82.4	
RMS	905.9		42.1		252.2		1761.3		38.8		11.4	
1/2 P-P	1830.9		88.9		469		2798.9		82.5		23.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	432.4	-603.8	-22.1	34.5	-77.7	167.7	1177.4	2176.3	-17.3	-31.8	-11.2	8.4
2nd	142.1	-40.1	-25.6	-9.1	-21.5	-63.4	-183	-27	25.4	13.3	-5.3	-0.8
3rd	151.4	144.1	26.9	17.3	125.1	253.8	-46.4	105.2	21.1	-15.6	-3.8	-1.1
4th	872.7	-442.2	2	7.7	66.1	27.1	-20.4	27.3	5	10.9	1.7	1.2
5th	231	7.5	2.9	0.3	21.6	38.8	33.6	-65.9	-1	1.9	0.3	0.3
6th	-0.8	-5.2	1	-2	-7.9	-4.4	-7.2	8.5	-0.3	1.8	0.2	-0.9
7th	5.7	3.2	0.7	0.6	-4.6	14.1	-14.8	-1.6	0.3	-1	0.7	-0.1
8th	-28.2	-6	-0.2	-0.6	13.5	18	84.3	27.3	-0.2	-1.4	0.4	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	93.4	-160.3	-407.2	-5782.7	-2755.4	-425.5						
RMS	471.4	528.7	442.4	1727.9	731.6	39.7						
1/2 P-P	898.2	1033.7	844.7	2725.5	1614.6	86.3						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-456.2	-186.1	-353.1	-130.5	-36.3	-36.7	-2075.2	1252	-105.7	425.4	21.3	-21.1
2nd	-376.6	-43.6	-584.2	-42.8	-543.5	-20.8	197.6	70.8	180.4	-58.3	-28.3	-9.3
3rd	-195.7	96.5	-167.1	79.5	-195.1	64	114	43.5	-205.4	-157.7	-26.3	-21.8
4th	32.2	30.7	142.9	64.1	175.3	37.8	-55.2	12.1	794.1	-290.9	7.1	9.9
5th	-73.3	13.6	-93	25.9	9.6	42.6	68.5	19.3	-151.7	-55.1	-2.1	-0.4
6th	25.4	4.7	25.2	5.2	1.3	11.6	4.6	2.5	-16.3	-1.1	2.2	-1.8
7th	13.6	4	-22.9	-11.4	-74.7	-34.2	-17.2	-5.9	21.4	16.6	-0.2	-0.6
8th	9.7	-6.6	-16.1	-34.5	-38.8	-37.5	89.2	34.8	-86.4	-33.2	0.4	-0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	
16/ 8												
MEAN	-1020.9	-4232	-965.2	-4554.5	-1576	-461						
RMS	279.8	1363.3	267.5	1446.7	1206.7	832.7						
1/2 P-P	538.3	2262.8	504.3	2348.2	1917.9	1759.9						
HARMONIC												
1st	219.5	-95.6	-1070	-1581.7	69.7	189.8	1668.9	-1156	1406.1	-944.3	706.2	
2nd	-47.6	-58.8	-107.6	-42.8	41.7	52.5	94.7	57.7	89.3	48.5	123.2	
3rd	-145.5	-255	42.9	-92.4	-266.8	137.3	-79.8	-48.4	-64.1	-14.6	39.2	
4th	60.8	25.3	-119.5	29.2	56.8	31.7	-39.4	37.6	77.4	-22.7	562.4	
5th	6	-42.5	-41.7	74.3	48.4	14.9	-105.7	-35	-49.7	-18.6	133.6	
6th	-16.4	-0.4	18.7	9.3	11	0.9	-8.8	11.5	-5.4	5.7	-9.4	
7th	7.4	-13.1	9.1	-12.4	-11.3	-3.8	20.5	-6.9	14.8	-5.9	-7.9	
8th	7.9	2.7	75.2	10.7	5.2	5.2	82.7	-4.2	72.9	3.7	43.7	
-5.4												
RUN/POINT												
16/ 8												
MEAN	-1582.8	-400.8	-825.5	-5843.8	-477.8	-86.5						
RMS	804.9	45.4	269.6	1311.3	40	9.3						
1/2 P-P	1614	94.8	493.7	2141.4	86.3	20.2						
HARMONIC												
1st	323.1	-513.6	-22.4	41.5	-149.8	153.1	1011.2	1535.1	-24	-29.3	-9.1	
2nd	121.8	-34.6	-28.5	-8.2	-52.8	-56.1	-124.9	-16.4	27.6	11.7	-5.6	
3rd	131.3	117.7	25.2	17	134.4	261	-46.9	83.6	20.6	-17.2	-4.3	
4th	775.5	-451.5	-1.7	5.7	60.3	29.2	-16.9	29	2.5	8.9	1	
5th	235.2	89.6	4.6	1.8	-9.2	34.5	65.4	-64.3	-3	4	-0.5	
6th	3.2	-7	0.9	-1.9	-15.8	-3.7	-6.2	2.7	-1.4	1.7	0.4	
7th	-12.9	2	0.6	0.5	-3.9	12.6	17.5	-7.6	0.4	-0.5	0.5	
8th	-22.3	3.6	-0.1	0.4	17.8	19.6	78.1	8.4	-0.5	-0.6	0.1	
-0.2												

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-875.4	-202.1	211.9	468.5	414.8	153.8						
RMS	292.1	183.1	96.7	128.8	152.7	310.6						
1/2 P-P	536.7	339.4	193.2	292.1	335	609.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-264.8	-142.4	-102.9	-98.4	-84.7	-96.9	-91.4	-101.2	-102.2	-246.2	-183.6	-30
	44.2	38.4	24	-12.4	7.4	-40	2.6	-49	0.8	-128.6	-30	77.8
	241.7	-109.4	-56.1	4	-9.8	-88.9	29.3	-124.4	46.2	-268.1	77.8	-25.7
	59	25	13.4	6	-2.5	-20.5	-12.9	-30.7	-16.1	-41.2	-25.7	-5.8
	-25.5	-18.6	-7.3	5.6	8.3	20.5	24.6	26.4	28.5	2.1	-5.8	1.6
	18.4	3.7	3.3	-3.7	1.4	-15.7	0	-18.4	-0.9	5.6	1.6	15.3
	13.2	1.8	-0.3	-10.1	-4.6	-22.1	-8.3	-24.4	-6.7	19.5	15.3	31.7
	7.2	14.5	3.8	3.6	-12.6	0.1	-26.4	-2.1	-27.4	-10.1	31.7	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	15.6	-201.4	-358.1	-6379.1	-2759.7	-410.7						
RMS	411.8	459.1	394.3	1291.2	644.5	42.4						
1/2 P-P	801	934.8	738.5	2123.8	1422.1	90.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-367.8	-181.9	-285	-129	-33.6	-1482.5	1033.6	-77	356.4	21.5	-27.5	-8.6
	-331.1	-21	-501.4	-26.6	-13.2	132.3	54.7	154.2	-48.7	-31.3	-26.1	-22
	-205.8	101.3	-175.5	92.1	68.4	90.8	46.1	-175.6	-123.8	-26.1	-22	-8.2
	37.2	30	137	60.7	41.6	-54.8	5.1	696.9	-272.5	3.2	-2.9	-1.3
	-34	-42.3	-42.2	-44.5	-5.2	71.9	47.8	-138.4	-116.4	-4.2	-0.5	0
	35.1	5.7	26.8	5.2	5.4	-11.8	-5.3	5.9	11.1	2.5	0	0.3
	10.8	6.4	-19.7	-8	-32.1	8.9	-9.7	0.8	17.9	0	0	0
	6.7	-7.2	-8.6	-40.8	-44.8	79	21.9	-72.2	-20.1	0.3	0	0

RUN/POINT 16/ 7	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2355.8	-5313.5	-2325.3	-5654.1	-2558.6	-828.5						
RMS	385.9	866.8	392	917.4	750.2	556.1						
1/2 P-P	752.5	1459	788	1544.3	1272.4	1135.4						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	331.8	325	-533.4	-1082.5	-377.2	285.9	1158.9	-538.3	956	-424.9	550.5	-338.6
2nd	-114.7	-12.7	39.3	-63.8	112.7	6.2	-70.3	89.3	-49.3	72	25.4	19.8
3rd	-131.1	-210.6	27.6	-48.9	-217	118.5	-36	-27.9	-30.6	-3.8	27.4	61.5
4th	43.4	25.7	-85.5	26.4	49.7	30.4	-8.8	26.7	62.9	-10.6	370.2	-153.1
5th	60.1	-13.3	-77.2	35.1	14.6	68.6	-47.8	-88.6	-21.3	-42.1	46.1	156.5
6th	-16.7	-0.5	3.9	11.5	18.2	1.5	-4	3.2	-1.1	2.3	-8.6	8.3
7th	3.8	-4.4	18.3	9.8	-5.4	-3.7	34	11.9	24.4	9.1	-9.5	-7.7
8th	8.8	-14.4	3.7	-43.3	14.7	-5.9	12.5	-54.9	12.7	-44.3	8.9	-32.3
RUN/POINT 16/ 7	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1701.1	-369.8	-2130.8	-6907.8	-431.8	-89.4						
RMS	542	50.7	332.6	796.5	42.3	6						
1/2 P-P	1163.2	100.4	665.6	1400.3	87.7	13.5						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	309.2	-274.4	-26.1	51.9	-268.2	-253.1	475.5	1002.1	-35.9	-28.1	2.5	1.9
2nd	53.2	-9.2	-30	-7.3	-130.1	-9.4	55.1	-46.3	27.7	9.2	-5.2	-1.3
3rd	66.8	74.7	22.2	11	117.4	214.8	-30.2	39.9	14.3	-16.3	-4.4	-0.2
4th	501.1	-264.9	-2.6	9.2	49.1	26.8	-25.7	-1.1	-0.2	8.5	0.3	0.9
5th	100.9	244.9	5.3	6.1	-62.9	13.1	98.5	-26.3	-6.3	5.8	-1.1	-0.3
6th	1.8	-0.6	3.1	-1.8	-21.2	-4.9	8.5	4.1	-3.2	1.1	0.4	-0.1
7th	-22.2	-8.3	-0.7	-0.6	-2.1	3.6	24.6	1	-0.5	0.4	0.1	1.1
8th	-4.1	21.9	-1.3	1.8	13.6	-6.2	15.7	-36.8	-1.6	1.3	0.1	-0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
16/ 7						
MEAN	-2194.9	-1018.9	-120.8	322.3	298.8	-6.6
RMS	276.1	162.9	74.2	105.5	130.1	232.2
1/2 P-P	524	304.9	134.3	236.6	280.9	491.4
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-232.7	85.5	-154.7	-96.8	-82.7	-112
2nd	-11.4	72.8	-4.6	-2.6	3	-136.7
3rd	-97.9	111	-49.8	-7.4	28.2	-221.8
4th	23.3	24.1	13	-1.3	-10.7	-32.4
5th	-64.3	2.1	-25.1	22.2	67	5.4
6th	4.7	7.8	3.1	0.6	-1.7	10.3
7th	2.4	3	2.3	-6.3	0.3	6.5
8th	-7.1	2.9	-2.8	-7	7	10.3
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
16/ 7						
MEAN	-158.2	-310	-268.8	-7540.2	-2795.2	-377
RMS	294.9	324.4	276.3	779.8	500.1	46.7
1/2 P-P	623.1	713.1	590.3	1364.8	1103.8	95.8
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-148	-95.7	-121.1	-32	180.9	26.5
2nd	23.7	-319	25.1	6.4	-30.4	-34.4
3rd	92.6	-162.4	96.9	73.1	-67.8	-22.7
4th	25	97.2	35.5	33	-107	0.5
5th	-151.3	57.3	-176.1	-108.1	-212.6	-4.4
6th	3.8	21.6	-2.2	-10.1	24.4	3.4
7th	5.1	-4.2	1.2	-0.8	5.2	0.9
8th	1.5	-15.5	12.5	-33	35.7	0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3716.3		-6140.8		-3701		-6486.7		-3312		-1105.4	
RMS	256.3		294.3		284.9		325.2		260.8		227.6	
1/2 P-P	530		699.7		556.9		811.2		615.7		540.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-74	191.5	205.4	266.7	-234.5	-111.3	-255.1	242.9	-228.2	188.7	-99.6	64.1
2nd	-257.4	5.8	159.7	13.1	267.7	-7.8	-198.2	13.2	-147.4	4.7	-44	-4.1
3rd	-86.9	-81.5	12.2	-4	-91.3	78.1	2.5	-13.8	2.1	0	15.5	33.3
4th	31.1	3.3	-45.8	-10.2	32.4	6	-16.2	21.3	24.6	-5.8	197.4	-101.4
5th	69.4	-17	-83.4	25.7	29.3	73.4	-61.2	-107.8	-30.4	-57.5	57.9	156.6
6th	-16.5	9.9	3.5	-12.2	17.2	-0.8	-13.1	8.6	-6.1	6.5	1.6	-1
7th	6	3.5	5	19.6	3.3	-3.3	26	31.8	15.7	25.8	-4.1	-7
8th	2	-43.6	-35.9	-74.2	13.4	-24.6	-32.3	-84.4	-26.5	-73.5	-15.2	-45.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1805.4		-334		-3456.8		-7712.1		-382.7		-87.7	
RMS	318.9		48.8		256.4		404.2		41.8		7.8	
1/2 P-P	724.2		82.4		527.8		947.4		73		17.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	-47.6	9.4	-27.1	57.5	130.3	-108.8	-262.4	-421.1	-44.9	-30.2	-4.2	7.7
2nd	3.6	-9	-21.9	-7	-285.9	7.2	198.3	10.1	18.2	7.8	-0.9	-0.7
3rd	25.9	32.5	10.5	-0.3	72.7	86.2	-8.8	7.4	3.4	-8.1	-4.7	1.4
4th	271.9	-169.8	-4.7	-3.4	35.3	9.8	-15.3	29.6	-3.6	-1.4	0.6	-0.5
5th	127.1	250.3	3.2	0.1	-65.5	30	104.7	-20.3	-1.6	5	-2.6	0
6th	19.3	-17	1.9	-0.7	-16.3	-1.3	19.6	11.1	-1.9	-0.3	-0.1	-0.2
7th	-17.5	-19	-0.1	1.5	-5.8	-3.2	17.9	31.8	-0.2	0.2	-0.6	0.2
8th	7.6	34.3	-2.3	3.3	0.5	-30.1	-24.7	-73	-1.9	3.5	0.1	0.4

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
16/ 6						
MEAN	-3527.3	-1842.4	-456.1	186.4	193.7	-128.2
RMS	242	136.1	44.8	81.8	99.5	169.1
1/2 P-P	492.6	265.5	124.9	203.5	244.3	340.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	20.9	152.1	8.2	9.3	-23.2	-31.4
2nd	274.3	-12.7	160.7	-2	-33	1.8
3rd	83.3	-62.7	47.4	-4.1	-29.3	20.6
4th	30	10.3	16.5	1.3	-14	-0.6
5th	-8.4	-67.6	-2.5	22.2	-1	68.3
6th	14.3	-5.4	6.3	1.2	-15.8	4.8
7th	-1.9	2.2	0.6	-4	3.3	-6.5
8th	7.2	-28.5	0.9	25.6	-18.7	46.9
					-15.6	37.1
					44.5	-48.2
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
16/ 6						
MEAN	-277.8	-376.6	-195.1	-8432.4	-2854.2	-336.5
RMS	241.2	257.6	173.3	401	286.8	42.8
1/2 P-P	516.5	568.1	393.1	922.1	668.4	78.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	120.7	-78.8	149	-30.3	18.3	2.4
2nd	-226.9	31.5	-201.2	33.6	25.3	-19.4
3rd	-107.9	58.2	-110.5	45.9	-37.9	-16.3
4th	25.7	1.1	43.6	-4.3	266.4	-83.1
5th	12.7	-158.5	19.3	-136.4	-56.1	2.1
6th	25.7	-9.9	13.2	1	-224.6	-4.8
7th	-0.7	-0.3	-3.9	-6.3	2.8	1.8
8th	-11	18.3	-27.6	69.4	2.2	-0.1
				-32.1	33	-1.1
					66.6	2.5

RUN/POINT 40/12	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3402.7	-77	3536.4	-825.2	1807.2	890.3						
RMS	374.8	5400	419.1	5388.5	4524	2598.9						
1/2 P-P	771.6	7931.8	819.9	7990.5	6796.4	4731.2						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-172	-227.9	-3450	-6777.2	303.4	-150.8	6522.3	-3872.2	5506.6	-3192.1	2709.9	-2060
2nd	123.3	-92.4	-519.3	-91	-165.9	113.2	643.1	60.8	561.8	54	451.6	-55
3rd	-208.3	-302.6	117.5	-305.8	-323.3	235.6	-277	-86.1	-187.3	-28.7	212.2	201.6
4th	138.7	13.4	-184.8	159	130.3	19.2	-18.2	28.8	191.4	-93.1	1057	-667.2
5th	-108.1	-79.5	59.7	104.1	80.2	-94.4	-68.1	45	-19.7	10.7	198.6	-102.1
6th	-30.8	6.8	35.4	-25.1	25.9	-8.8	-23	8.8	-19.1	-0.2	12.1	-21.9
7th	0	-33	37.8	-11.7	-31	-3	-13.3	-8.7	-8.4	-7.4	-1.9	-7.5
8th	-6	3.6	0.7	10.4	1.4	13.5	3.5	21.8	1.7	20.3	-2.9	5.1
RUN/POINT 40/12	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-964.6	-412.2	0	-1930.7	0	-525.6	-24.6					
RMS	1957.8	52.5	0	5503.8	57.6	40.6						
1/2 P-P	3910.9	102.2	0	8158.5	121	63.1						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1258.5	-1562.7	-28.2	7.1	0	3349.1	6992.6	4.5	-52.8	-42.7	-38.1	
2nd	403.8	-124.3	37	22.6	0	-577.9	-90.1	-30.4	-17.7	-3.3	-3.2	
3rd	490	287.1	32.3	-12.2	0	-140.8	228.3	-10.7	-25.8	0.4	-0.5	
4th	1408.4	-1012.1	30	21.2	0	-57.9	105.7	34.1	19	-0.1	-0.5	
5th	285.4	-168.1	-7.1	1	0	-61.1	-112.4	2.7	-10.1	-0.2	0	
6th	38.2	-22.4	-2.8	-6.4	0	28.4	-13.3	5.6	1.8	0	-0.2	
7th	0	-1.3	2	1.4	0	-12.4	34.1	4.3	-3.6	0	-0.2	
8th	3.1	-13.1	0.1	3.6	0	12.7	24.8	1.4	1.3	0.2	-0.2	

RUN/POINT 40/12	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3387.7	260.8	2450.5	158.3	1288.8	3.8	0	0	799.5	-112.5	696.8	-240.2
RMS	489.8	117.1	311.6	68.4	135.8	26.3	0	0	228.9	-0.4	511	-80
1/2 P-P	937.8	190.1	582.3	99.1	260	-11.7	0	0	473.6	87.4	958.6	136.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-466.7	6.7	2.4	11.3	-11	0	0	-61	-19.6	-97.5	-18.9
	2nd	-165	78.5	-28.2	32.2	-20.6	0	0	108.6	-85.7	-13.5	-16
	3rd	295.8	-9.7	8.7	-2.3	2.8	0	0	-29.9	12.2	20.8	0.1
	4th	121.1	3.9	6.7	1.1	-7.7	0	0	-53.3	-12	53.1	30.2
	5th	-71.7	0.1	2	0.6	25.1	0	0	38.1	-1.6	-43.4	-12.5
	6th	23.2										
	7th	29.6										
	8th	-15.4										
RUN/POINT 40/12	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	467.2	-81.8	-749.9	-1963.4	-5238.4	7856.2	-2429.3	-425.2	56.8	119		
RMS	786.8	866.9	647.5	5238.4	7856.2	3355.3						
1/2 P-P	1375.2	1670	1404.6									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-788.4	-161.9	-75.2	-66.8	-35	-6338.6	3751.8	-335.8	1122.1	29.6	2.8
	2nd	-657.7	-132.4	-105.4	-744.4	-13.3	666.2	-1.5	417.3	-129.6	35.9	20.3
	3rd	-224.1	107.4	32.7	-377.9	12.7	287.6	152.1	-538.3	-324	-32.2	4
	4th	54.6	49.6	71.6	220.3	14.6	-156.8	66.7	1644.1	-932.4	44.7	19.3
	5th	-184.7	166.9	232.3	36.5	186.8	89.6	-55.7	-252.1	88.9	8.6	-1.6
	6th	48	-14.8	-20.8	-4.7	9.6	-30.8	7.1	38.5	17.5	-1.7	-8.8
	7th	30	-1.2	-16.9	-169.2	-33	48.1	46.7	-23.9	-33.2	-3.3	-1.2
	8th	25	-1.2	-3.5	37.6	-2.9	13.8	29.9	-8.8	-34.4	2.4	2.7

RUN/POINT 40/11	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1944.4	-1851.7	-2058	-2301.6	469.1	347.8						
RMS	369.9	3885.1	390.6	3952.7	3315.7	1992						
1/2 P-P	668.2	5870	689.1	5962.5	5011.9	4012.6						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-25.7	-253.3	-2470.9	-4879.2	299.1	-3.1	4855.8	-2719.8	4095.1	-2235.2	2007.7	-1469
2nd	7.8	-111.5	-316.5	-70	-26	112	379.5	111.5	343	90.4	319.7	-25
3rd	-247.5	-315	76	-287.3	-330.9	240.9	-244.6	-74.8	-166.7	-26	167.4	176.3
4th	136	33.1	-171.2	79.5	126.5	31.6	-15.6	9.4	193.8	-88	1078.8	-553.4
5th	-59.5	-94.9	4.2	134.9	112.6	-46.9	-138.8	52.1	-54.3	25.8	297.2	-38.9
6th	-40.2	0.5	52.4	-29.3	29.6	1.2	-21.9	26	-17.9	17.5	13.2	-15.6
7th	0.1	-32	-17.6	-16.9	-24.2	-5.8	-46.1	-15.4	-33.5	-15.6	-12.1	-5.9
8th	3.6	14.2	47.6	-3.8	-2.7	18.9	34.8	-0.3	30.4	1.8	16.3	-1.1
RUN/POINT 40/11	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1174.5	-433.8	0	-3659	-534.5							
RMS	1661.4	41.3	0	3966.6	49	24.7						
1/2 P-P	3410.6	97.5	0	5977.7	103.6	40						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	914.6	-1135.2	-26.1	8.5	0	0	2403.8	5046.5	5.3	-44.5	-24	-25
2nd	306.2	-98.3	-11.3	2	0	0	-318.8	-85.7	12.8	1.7	0.7	-2.2
3rd	413.8	247.2	32.1	12	0	0	-96.4	234.1	14.1	-23.9	0.2	0.7
4th	1448.3	-847	17.6	29.6	0	0	-31.7	61.8	24.8	32.4	0.1	-0.4
5th	450.7	-103.6	-2.9	4.1	0	0	21	-147.4	-3.8	-5.6	-0.1	-0.1
6th	34.7	-21.8	-0.1	-5.3	0	0	27.5	-10.8	-1.1	5	0.1	0
7th	12.8	10.5	3.3	3.5	0	0	-15.5	16.9	3.3	-3.7	-0.2	-0.1
8th	-11.4	-7.8	-0.1	-0.3	0	0	40.2	14.6	-0.7	-0.4	0	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1991.9		1582.7		941.3		0		672.2		517.6	
RMS	432.2		271.8		131		0		230.7		500.4	
1/2 P-P	710.7		436		271.7		0		504		920.9	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-437.7	35	-305.3	13	-153.1	-51.3	0	0	-158.2	-119.4	-482.3	-244.5
2nd	-22.9	97	-19.3	58.8	-33.3	21.4	0	0	-53.3	-2.9	-174.7	-75.1
3rd	314.6	-213.2	174.3	-111.1	-1.3	-14.5	0	0	-170	96.5	-359.2	172.7
4th	120.4	31.5	66.8	16	10	-8.1	0	0	-62.8	-30.9	-93.9	-38.7
5th	-81.9	38.2	-32.4	17.1	32.7	-3.3	0	0	114.7	-31.4	-1.1	-17.8
6th	30.7	-4.6	12.4	-1.8	-12.7	-2.3	0	0	-36.6	0.5	15.3	6.8
7th	23.3	2.5	2.3	-0.3	-27	-8.1	0	0	-47.9	-11.8	47.9	29.9
8th	-3.3	-6.8	5.8	-0.8	16	6.7	0	0	20.5	9.6	-18.5	-20.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	337.8		-87.8		-638.4		-3891.6		-2567.9		-442.3	
RMS	733.8		822.7		615.1		3948.7		1547.8		46.5	
1/2 P-P	1403.5		1530		1293.3		6067.9		3238.1		108.5	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-677.8	-227.3	-462.9	-130.5	-39.2	-35.7	-4785.2	2822.8	-229.6	883.2	22.7	2.3
2nd	-647.6	-68.3	-935	-66.2	-710	-16.8	405.9	72.6	337.2	-128.4	-17.3	3.2
3rd	-234.4	140.1	-271.9	91.4	-356.4	67.3	250.4	119.7	-490.4	-268.9	-34.8	-19.5
4th	74.7	50.9	289.6	73.2	246.5	20.6	-149.6	44.6	1666.5	-757.4	27.2	31.2
5th	-202.2	68	-227.1	111.3	11.6	101	133.8	-33.3	-334	30.9	1.6	-2.5
6th	65.6	-9.4	30.2	-7.7	-10.7	17.2	-17.2	33	-11.5	-5.2	3.1	-5.7
7th	24.9	5.5	-32.8	-24.8	-152.9	-43.6	4.6	18	13.2	-18.4	-1.6	-3.3
8th	17.5	3.8	15.9	20.2	12.7	15.3	47.5	3.9	-47.4	-8.2	0.1	-0.5

RUN/POINT 40/10	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1150.7	-2705.7	1246.2	-2985	-140	146.5						
RMS	361.6	3226.4	380.4	3293	2756.8	1708.1						
1/2 P-P	641.4	4935.5	691.1	5075	4180.4	3415.2						
HARMONIC	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	100	-215	-2147.3	-3998.7	249.7	120	3994.7	-2350	3365.2	-1922.6	1648.4	-1263.6
2nd	8.8	-114.4	-276.9	-67.5	-22.9	118	310.5	111.5	279.7	92.3	267.1	-14.1
3rd	-258.9	-313.5	52.3	-264.8	-328.7	249.2	-232.3	-47.8	-164.1	-7.6	142.8	166.8
4th	124.7	30.8	-153.2	84.3	124.3	27.9	2.2	1.7	192.3	-92.5	1006.2	-542.7
5th	-37.6	-76.4	-19.3	114.5	92.6	-23.9	-138.2	-0.3	-54.9	-4.4	270.6	20
6th	-37.2	2.1	31.3	-18	30.7	2.1	-20.6	23.2	-19.1	15.4	11.9	-10.5
7th	1.7	-27.8	-5.6	1.3	-18.6	-4.9	-24.8	13.7	-16.7	9.6	-7.7	-3.2
8th	2.9	2.2	32.8	-12.4	-4.4	13.6	29.1	-6.6	27.7	-3.5	8.7	-4
RUN/POINT 40/10	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1227.6	-435.9	0	-4477.9	-530.5	-64.9						
RMS	1484.3	44	0	3309.8	47.7	17.4						
1/2 P-P	3082.3	104.5	0	5051.8	101.4	29.5						
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	742.3	-967.8	-26.5	14.1	0	0	2125.6	4148.6	-0.8	-41.9	-15.8	-18.5
2nd	258.5	-84.2	-21.9	-4.5	0	0	-268	-80.4	23.8	7	1.7	-1.6
3rd	364.8	219.4	35.8	15	0	0	-67.7	235.2	21.2	-27.3	0.5	0.8
4th	1336.7	-819.7	12.9	25.4	0	0	-39.7	37.7	15.9	25	0.2	-0.3
5th	429.5	5.4	1	4.2	0	0	62.8	-117	-3.2	-2.4	0	0
6th	26.6	-20	1.8	-5.9	0	0	19.8	9.8	-1.7	3.8	-0.2	0
7th	-1.1	-2.2	1.3	2.3	0	0	-0.1	23.5	2	-2.4	0	-0.1
8th	-8.5	2.9	0.1	2.1	0	0	25.4	20.2	-1.4	0.7	0.1	-0.1

RUN/POINT 40/10	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	1205.4	1092.1	739.9	0	595.7	408.8	RMS	418.1	261.2	130.6	0
	1/2 P-P	728	476.4	276.4	0	224	484.6					907.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-401.9	-92.2	-278.8	-68.1	-143.4	-82.4	0	-151.2	-120.9	-449.7	-230.4
	2nd	-14.3	100.7	-14.1	61.3	-30	21.5	0	-50.3	-2.7	-159.4	-69.8
	3rd	315.1	-221.5	174.3	-115.5	-2.5	-13.9	0	-174.5	103.4	-369.3	188.1
	4th	114.8	28	62.9	13.6	7.3	-8.9	0	-66	-27.6	-95.6	-38.8
	5th	-64.3	13.6	-25.6	6.5	23.6	2.5	0	86.9	-3.5	5.3	-14.8
	6th	28.9	-3.6	11.9	-1.5	-12.1	-3.3	0	-36.8	-2.1	18.2	10.4
	7th	20.4	2.5	2.5	0.1	-22.9	-6.7	0	-41.3	-10	43	22.4
	8th	-1.2	-13.5	5.7	-2.2	13.5	12.7	0	15.3	22.1	-9.8	-30.7
RUN/POINT 40/10	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	230.9	-128.8	-571.1	-4804.6	-2591.7	-444.5	RMS	672	759.9	585.2	48.6
	1/2 P-P	1290	1465.2	1180.5	5030.2	2935.4	106					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-595.9	-230.1	-418.6	-133.5	-31	-21.9	-3884	2461	-168.6	751.5	-1.6
	2nd	-600.9	-30.7	-864.4	-32.6	-670.7	1	332.8	77.6	293.9	-119.5	-3.7
	3rd	-245.8	161.3	-268.9	129.7	-344.6	93.1	240	78.6	-452.2	-244.1	-23.9
	4th	83	48.6	286.8	62.1	250.3	17	-140.6	48.9	1604.1	-740.1	25.4
	5th	-156.3	16.4	-171.2	44.7	45.8	51.5	112	12.4	-290.5	-47.3	-5.7
	6th	69.5	-11.3	23.8	-5.6	-17.9	18.6	-1.1	-0.3	-26.3	23.2	-5
	7th	22.5	8.2	-23.4	-23.7	-139.8	-37.2	14.6	18.5	3.5	-18.2	-1.6
	8th	11.8	7.5	8	37.4	4.4	30.5	30.3	12.5	-27.8	-11.2	0.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	418.7	-3369.4	490.2	-3681.1	-763.5	-75.1						
RMS	322.4	2596.7	330.4	2653.1	2213.2	1427.2						
1/2 P-P	504.2	3941.3	519.7	4090.6	3407.4	2914.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	76.6	-52.1	-1424.3	-3361.1	67	91.9	3405.5	-1537	2852.7	-1244.1	1424.9	-844.2
2nd	-19.8	-98.5	-170.1	-58.2	16.4	105.5	150.8	77.2	145.6	64.2	183.4	-26.2
3rd	-253.4	-321.7	39.8	-227.9	-332	243.3	-213.6	-28.5	-155.3	12.3	113.7	175.2
4th	112	32.1	-162.4	98.2	119.4	30	13	9.8	188.9	-76.7	949.2	-507.1
5th	0.5	-68.3	-52	119.9	82.1	12.8	-133.4	-48.3	-50.1	-25	257.8	96.5
6th	-38.8	-1.8	28.5	5.4	29.8	1.1	-7.3	-13.5	-7.1	-11.8	1.5	-1.6
7th	8.7	-24.7	20.9	-14.2	-17.4	-7.2	7.3	-27.8	9.1	-23	-1.2	-9
8th	2.1	-17.9	-6.2	-42.6	1.6	-1.2	-14	-44.7	-11.8	-40.2	-11.8	-24.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1288.5	-428.7	0	-5130.9	-518.3	-73.9						
RMS	1321.2	46.7	0	2690.2	48.2	12.4						
1/2 P-P	2834	107	0	4101.4	103.7	23.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	670	-670.3	-22.6	20.8	0	0	1387.1	3527	-8.5	-34.8	-11.4	-12.3
2nd	199.6	-82	-29.5	-6.5	0	0	-154.9	-42.5	30.2	9.1	2.7	-1.4
3rd	308.1	222.9	38.4	17.9	0	0	-51	207.9	25.7	-31.8	0.6	1.2
4th	1261.5	-772.6	7.8	21.7	0	0	-40.3	29.2	12.5	20.1	0.1	-0.2
5th	418.9	129.8	5.5	6.1	0	0	72.3	-99.8	-5	3.7	0	-0.1
6th	8.1	11.4	1.9	-5.2	0	0	-3.5	20.2	-2.3	3.5	0	0.1
7th	-22.7	20.4	1.2	1.3	0	0	19.4	-12.9	1.5	-1.6	-0.1	0
8th	5.5	22.4	-0.4	2.9	0	0	-4	-35.8	-2.4	2.4	0.2	0

MEAN	477.5	639.7	555.3	0	527.5	309.3
RMS	330.2	198.2	100.1	0	217.1	452.3
1/2 P-P	552	370.5	229	0	448.3	810.6

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-228.5	-57.5	-169.4	-48.7	-99.4	-69.9	0	0	-133.6	-109
2nd	28	80.7	11.3	49.5	-20.1	16.8	0	0	-53	-2.5
3rd	308.6	-205.7	168.9	-106	-5.8	-10.9	0	0	-181.2	100.5
4th	105.3	24.6	57.1	10.7	5	-11.4	0	0	-65.1	-30.1
5th	-51.6	-25.7	-20.2	-8.5	16.3	17.7	0	0	67.1	49.4
6th	33.6	-2.2	12.6	-0.9	-16.4	-2.2	0	0	-46.9	-1.2
7th	17.4	5	1.3	0.2	-21.9	-8.8	0	0	-39.2	-15.1
8th	2	-12	3	-3.2	2.3	8.8	0	0	2.1	16.7

Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.400$

MEAN	141.2	-157.9	-501.6	-5517.5	-2589.1	-437.3
RMS	611.3	691.8	544.6	2613.1	1360.6	51.3
1/2 P-P	1196.8	1369.8	1131	4010	2842.7	107.6

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-525.1	-219.9	-385.3	-140.7	-30.2	-16.6	-3274.5	1668.9	-176.3	547.1	21.1	-7.6							
2nd	-524.4	-15	-761.9	-13.6	-607.9	9.8	200.9	65	251.6	-108.7	-36.7	-7							
3rd	-268	183.3	-270.3	163.5	-328.5	110.5	206.3	53.8	-409.9	-231.7	-42.3	-27.7							
4th	85.2	51.6	273	68.4	247.4	31	-143.1	55.9	1568.9	-687.6	14.5	18.9							
5th	-114.4	-82.4	-124.8	-77.8	70.6	-32.9	110.8	47	-278.7	-157.7	-4.9	-8.6							
6th	80.2	-9.6	32.6	-2.9	-16.6	16.8	-8	3.2	-9.7	0	3.9	-4.6							
7th	22.8	7.2	-25	-25.2	-137.4	-33.8	31.5	9.4	-10.3	-9.4	-0.5	-1.9							
8th	1.7	7.7	-9.4	28.5	-11.2	17.2	-4.1	-32.3	11.7	28.4	0.3	1.6							

RUN/POINT 40/ 8	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-274.8	-4004.8	-213	-4322.7	-1324.6	-277.1						
RMS	313.3	1912.5	321.8	2032.6	1693.3	1137.8						
1/2 P-P	507.8	2981	526.1	3179.3	2662.4	2405						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	81.1	-37.5	-1035.8	-2474.8	50.3	88.9	2623.2	-1133.6	2194.2	-915.7	1103.7	-632.2
2nd	-29.3	-110.7	-115	-13.7	34.6	120.3	139.2	8.2	136.1	8.2	170.7	-45.5
3rd	-235	-315.5	38.9	-168.4	-318.5	230.6	-150.4	-25.7	-110	7.3	87.8	139.1
4th	103.1	30.6	-162.3	83.7	114.8	27.9	9.9	19.9	156.5	-55.4	805.9	-400.4
5th	15.5	-79.1	-52.7	135.8	100.6	17.8	-172.9	-16.3	-80.1	-8.1	290.3	91.1
6th	-30.9	0.9	29.4	3.6	25.6	-3.4	-7.2	-3.3	-10.7	-5.5	5.9	-7.1
7th	8.4	-22.4	14.9	-5.7	-14.4	-8.3	22.3	-36.1	22.7	-29.1	7.8	-7.7
8th	1.8	-13.8	-2.5	-33.3	4.6	-3.7	-7.7	-45.5	-1.1	-40.5	-2.4	-20.4
RUN/POINT 40/ 8	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1356.4	-418.9	0	-5745.9	-503.3	-79.6						
RMS	1100	47.7	0	2001.2	47.6	9.1						
1/2 P-P	2358.6	104.8	0	3137	101.4	17.9						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	524	-510.2	-22.3	30	0	0	1025.7	2620.9	-17.5	-31.2	-7.7	-9.3
2nd	180.9	-75.1	-31.7	-8.8	0	0	-121.7	12.6	31.7	10.2	2.4	-1.1
3rd	242.2	185.6	36	18.9	0	0	-57.1	148.1	26.4	-31.7	0.6	1.1
4th	1061.9	-613.2	3	15.9	0	0	-54.2	22.9	8.7	15.3	-0.1	-0.1
5th	471.7	104.2	8	3.3	0	0	67.1	-140.9	-2.8	6.5	-0.1	0.1
6th	7.1	-1.5	2	-4.4	0	0	-0.6	17.9	-2.5	3.7	-0.2	0
7th	-24.2	25.2	0.3	0.9	0	0	17.5	-24.9	1.5	-0.2	0.1	0.2
8th	3	16.7	-1.2	2.2	0	0	-3.8	-29.8	-1.7	2.6	0	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	55.7	-199.6	-437.3	-6196.9	-2609.5	-426.2						
RMS	540.2	612.2	493.5	1926.3	1174.4	50.9						
1/2 P-P	1084.2	1242.4	989.9	3081.4	2485.2	111						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-431.9	-198.8	-317.4	-133.9	-13.5	-14	-2398.6	1246	-123.6	417.6	20.7	-17
3rd	-453.6	-12.4	-655.1	4.6	-542.7	28.7	155.4	2.5	217.8	-88.8	-36.8	-8.8
4th	-267.2	163	-271.1	145.8	-314.7	101.4	147.3	47	-323.1	-191	-41.9	-25.5
5th	92.5	42.3	254.1	37.3	230.7	0.1	-138.8	52.6	1374.2	-560.2	11	16.1
6th	-164.5	-91.4	-168.8	-83.9	29.8	-50.8	153.9	46.3	-349.6	-152.9	-9.7	-6
7th	71.8	-16.1	23.5	4.2	-5.3	33.4	-5.3	3.6	-17.6	-4.3	5.4	-4.3
8th	21.3	9.3	-23.2	-26	-126.1	-21.9	17	2.2	-0.8	-5.2	0.2	-1.2
	-3.2	6.4	-15.4	26.7	-33.1	11.6	-0.2	-25.5	8.4	22.2	-1.2	1

RUN/POINT 40/ 7	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325												
	MEAN	-900.6	-4630.9	-860.2	-4988	-1904.9	-503.4																
RMS	358	1452.1	363.7	1592.3	1323.9	989.1																	
1/2 P-P	599.1	2386.7	637.6	2669.8	2267.8	2105.6																	
HARMONIC	COSINE	220.7	-60.5	-1766.7	50.3	1942.5	-1086.8	243	80.5	171	155.4	26	871.9	813.8	-588.3	-43.5	126.8	-510.2	170	2.1	-12.5	-17.2	
	SINE	-6.2	-64	-43.2	-0.1	171	28.7	80.5	80.5	171	155.4	26	871.9	813.8	178.5	66	126.8	-510.2	170	2.1	-12.5	-17.2	
	COSINE	-260	-337	-125.7	-337.7	-110.8	-40.9	249.5	249.5	-110.8	-85.2	-4	-74.1	747.6	166.6	0.6	2.1	-12.5	-17.2				
	SINE	97.3	24.4	107.3	109.3	10.7	23.6	23.3	23.3	10.7	148.6	-45.7	-74.1	747.6	166.6	0.6	2.1	-12.5	-17.2				
	COSINE	55.7	-32.7	89.9	38.4	-144.2	-90.2	51.3	51.3	-144.2	-72.8	-20.8	-74.1	747.6	166.6	0.6	2.1	-12.5	-17.2				
	SINE	-39.7	8.4	8.1	34.5	-14.7	-0.3	-11.5	-11.5	-14.7	-11.9	0.9	-20.8	747.6	166.6	0.6	2.1	-12.5	-17.2				
	COSINE	3.5	-15.6	-11.3	-11.3	24.5	-27	0.8	0.8	24.5	24.7	-28	-20.8	747.6	166.6	0.6	2.1	-12.5	-17.2				
	SINE	-0.9	-28	-17.6	-7.7	-88.3	-28	-12.5	-12.5	-88.3	-76.2	-28	-28	747.6	166.6	0.6	2.1	-12.5	-17.2				
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RUN/POINT 40/ 7	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1												
	MEAN	-1432.8	-406.8	0	-6374	-484.3	-82.8																
RMS	1046.4	50.5	0	1522.3	49.5	7.8																	
1/2 P-P	2080.2	107	0	2618.8	100.6	17																	
HARMONIC	COSINE	377.9	-453.7	-17	36.1	0	1031.7	1860.8	-23.5	-23.4	-3.4	-9.3											
	SINE	169.6	-73.4	-31.4	-4.5	0	-143.1	-27.4	33.1	7.3	2.6	-1.2											
	COSINE	196.7	164.1	41.9	13.9	0	-62.5	107.7	25.1	-39.3	0.8	1.3											
	SINE	982	-768.5	3.1	18.8	0	-47.5	13.8	6.4	14.8	0.1	0.1											
	COSINE	307.5	254.5	6.9	8	0	116.4	-8.8	-8.8	7.3	0.1	0.2											
	SINE	8.8	-0.7	1.7	-4.6	0	1.4	10.4	-1.2	4	-0.1	-0.1											
	COSINE	-27.3	15.8	1.6	1.3	0	25.3	-13.2	1.1	-1.2	0	0											
	SINE	34.5	14.6	0	3.1	0	-89.8	-22.4	0.9	3.5	0.1	0.2											
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RUN/POINT 40/ 7	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-813.4		-163.1		227		0		408		121.5		
RMS	378.7		226.1		108.9		0		209.6		392.8		
1/2 P-P	682.6		430.4		232		0		453.9		714.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	-247.5	-191.7	-130.8	-103.3	-95.2	0	-124.2	-96.4	-295.9	-171.3		
	2nd	8.6	48.4	29.8	-21.5	11.8	0	-44.5	6.1	-126.1	-5		
	3rd	333.4	-233.5	185.2	-121.9	-16.4	0	-175.2	102.9	-366.1	182.5		
	4th	102	18.2	56.2	7.8	-9	0	-56.1	-20.2	-82.7	-13.5		
	5th	-18.4	-72.7	-7.8	-28.6	-3.3	0	11.9	97.1	14	-9.9		
	6th	41	-10	15.9	-2.1	-18.5	0	-53.7	14	33.8	2.8		
	7th	11	-3	0.8	-3.3	-15.3	0	-25.6	-4	25.5	15.3		
8th	2.1	-23	1.4	-3.5	-2.3	22.2	0	-2	38.9	17.5	-48.4		
RUN/POINT 40/ 7	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-60.6		-275.1		-397.3		-6867.6		-2622.8		-412.4		
RMS	484.1		544.6		469		1511		1134.6		52.4		
1/2 P-P	941.7		1108.5		940.9		2582.9		2190.4		105.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	-341.9	-170.2	-259.5	-126.5	-10.2	-14.2	-1727.5	1197.2	-77.9	359.1	16.2	-23.4
	2nd	-382.1	39.2	-534.2	59.8	-460.5	54	184.6	46.4	196.9	-95.4	-36.5	-2.5
	3rd	-280	212.5	-270.8	210.3	-291.2	150.9	108.5	54.6	-276	-158.3	-47.8	-21.5
	4th	92.7	41.8	230.4	26.2	216.2	7.4	-131	56.6	1284.2	-688.4	9.2	14.1
	5th	-0.7	-174.5	31.9	-195.6	163.3	-142.2	109.4	117.6	-209.7	-287.9	-7.2	-12.3
	6th	87.6	-23.1	34.4	-6.5	-7.1	15.9	-10.4	1.8	-5.8	-1	5.1	-5.3
	7th	20.1	-1.5	-21.2	-22.3	-115.5	-3.3	19.9	0.6	-5	1.8	0	-1.7
8th	-11	17.1	-5.3	63.6	-17.3	55	-93.3	-12.6	102.7	7.8	1.6	2.7	

RUN/POINT 40/ 6	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2325.5	178.1	-5564.2	16	-2305.4	37.5	-5940.7	19.7	-2759.8	27.1	-796.5	-34.9
RMS	288.7	-38	439.8	53.9	292.1	47.1	556.8	-29.3	449.9	-5.7	481.1	-35.1
1/2 P-P	671.1	-222.3	879.7	32.4	672.4	195.9	1068.2	-36.5	911.3	-3.7	1023.1	66.4
HARMONIC		71.5	21.1	-106.3	80	20	22.7	6.4	97.8	-35	424.1	-239.4
	1st	38.7	178.1	16	-553.9	37.5	729.2	19.7	597.9	27.1	321.3	-34.9
	2nd	-99.7	-38	53.9	-5.3	47.1	-29.3	-4	-10.5	-5.7	51.2	-35.1
	3rd	-212.6	-222.3	32.4	-49.9	195.9	-36.5	-32	-33.9	-3.7	25.4	66.4
	4th	71.5	21.1	-106.3	86.2	80	22.7	6.4	97.8	-35	424.1	-239.4
	5th	114.1	-76.2	-136.8	97	67.3	-158.2	-175.5	-76.8	-94.7	178.7	266.3
	6th	-31.5	9.3	12	5	32.5	-5.7	-11.2	-1	-6.4	14.9	-2.3
	7th	7.2	-8	-4.5	29.8	-5.2	21.6	20	17.2	16.2	0.5	-2.7
	8th	4.2	-37.8	-37.5	-76.3	8	-35.4	-80.3	-27.9	-71.9	-15.3	-46.9
RUN/POINT 40/ 6	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1509.1	-72.9	-371.3	47.4	0	0	-7249.6	626.1	-435.9	-18.7	-85.4	-3.7
RMS	632.7	-47.4	48.5	-7.3	0	0	482.9	11.6	43.7	7.1	4.7	-0.3
1/2 P-P	1364.5	90.7	102.7	1.4	0	0	973.4	36.6	92.4	-27.3	12.1	0.5
HARMONIC		-361.6	4.2	14.2	0	0	-42.6	-21	5.5	9.7	0.8	-0.1
	1st	170.7	-72.9	47.4	0	0	-39.1	626.1	-36.3	-18.7	-3.8	-3.7
	2nd	74.2	-47.4	-28.1	-7.3	0	67.7	11.6	28.8	7.1	1.7	-0.3
	3rd	70.1	90.7	30.6	1.4	0	-42.6	36.6	10.4	-27.3	0.8	0.5
	4th	546.1	-361.6	4.2	14.2	0	-39.3	-21	5.5	9.7	-0.2	-0.1
	5th	345.2	429.1	11	3.8	0	171.8	-94.1	-5.2	12.9	-0.2	0.1
	6th	20.7	4.6	4.2	-5.5	0	20.5	6.2	-5.2	3.9	0	0
	7th	-21.1	-9.1	-0.8	0.1	0	11.6	12.5	-1.3	1.5	-0.1	0.1
	8th	15.2	26.9	-1.7	4.5	0	-29.1	-68.6	-2.3	4.8	0	0.2

RUN/POINT 40/ 6	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2219.7	-1032.6	-127.1	0	288.6	-44.3						
RMS	251.3	132.5	56.5	0	184.8	266.6						
1/2 P-P	529.7	274.6	143.4	0	417.1	514.1						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	20.5	23.3	-0.7	1	-25.4	-31.6	0	0	-69.4	-65.3	-134.5	-117.5
2nd	117.9	28.6	66.3	19.4	4.5	6.9	0	0	-47.6	5.2	-132.5	-3.9
3rd	225.1	-180	127.1	-94.7	5.6	-13	0	0	-113.9	80.2	-253.3	145.1
4th	72.1	15.2	39.2	6.6	3.9	-5.6	0	0	-43.3	-13.4	-49.8	-13.6
5th	-55.9	-126.3	-22.1	-51.6	6.1	44.5	0	0	49.5	161.1	14.9	-7.9
6th	31	-10.4	11.8	-3.3	-14.2	2.6	0	0	-41.8	14.4	27	-0.1
7th	4.5	3.9	1.5	1.2	-2.3	-3.3	0	0	-5.6	-5.3	0.7	7.6
8th	6.5	-35.6	2.3	-7	-8.6	31.8	0	0	-13	59.2	34.4	-66.2
RUN/POINT 40/ 6	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-195.7	-344.4	-278.9	-7845	-2647.3	-373.6						
RMS	368.5	409.3	331.9	456.8	751.1	46.4						
1/2 P-P	749.8	838.3	694.1	949.5	1578.3	93.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-126.8	-120.1	-89.9	-95.3	12.5	-25.2	-562.7	66	-54	92.5	15	-36.4
2nd	-245.8	34.4	-298.6	52.8	-254.9	43.6	-26.9	2	104.6	-49.2	-31.3	-6.5
3rd	-213.8	154.3	-193.6	144.1	-175.7	112.4	39.1	36.5	-115	-78.9	-34.2	-6.5
4th	67.9	20.8	140.4	14.4	145.2	-4.4	-117.2	23.2	856.8	-290.3	6.2	8.2
5th	-67.2	-306.2	-71	-358.4	18.5	-260	121.3	190.1	-235.2	-426.9	-14.6	-9.8
6th	62.7	-21.2	26.4	-13.3	-14.3	5.5	-11.2	-6.1	16.1	3	5.6	-4
7th	9.5	1.4	-6.3	-8.6	-53.2	2.9	-8.9	23.3	19.6	-20.4	1.4	0.2
8th	-13.5	24.3	-21.7	96.7	-25.5	97.1	-30.6	-72.7	36.3	74.2	-0.9	3.3

RUN/POINT 40/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-3663.8	-6361.4	-3658.7	-6704.8	-3471.6	-1027.6					
RMS		290.4	343.5	313.6	274.5	224.7	205.3					
1/2 P-P		551.8	748.3	586.7	647.5	500.7	461.9					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	93.1	167.8	361.3	-224.7	90.6	158.5	134.5	-77.3	37.4		
2nd		-330.3	35.2	-26.7	341.4	-22.6	21.8	-174.2	8.8	-57.4	-14.3	
3rd		-90	-94.9	11.2	-93.8	85	-8.6	2.9	1.7	21.6	26	
4th		43.6	-6.4	-45.9	29.4	-6.7	-8.9	40.3	-28.6	218.4	-115	
5th		10.9	-19.3	-26.2	11.1	20.3	-30.1	-26	-19.5	52.6	36	
6th		-9.1	8.1	-3.2	13.5	-9.2	3.4	1.5	2	4.5	-10.8	
7th		1.3	-3.6	18.3	-3.5	-0.5	12.2	17.8	11.1	7.6	0.8	
8th		-6.1	-33.9	-21.2	1.6	-34.7	-37.1	-17.1	-30.8	-10.4	-18.7	
RUN/POINT 40/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
MEAN		-1571	-330.3	0	-7997.4	-380.4	-79.3					
RMS		266.7	49.1	0	320.2	42.6	3.4					
1/2 P-P		505.6	82.2	0	694.2	74.3	9					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-28.2	-5.4	-20.5	58.1	0	-163.1	-281.3	-46.5	-0.6	-3.1	
2nd		9.5	-19.1	-26.8	-11	0	273.9	-13	23.6	0.5	0.7	
3rd		39.4	31.3	4.9	-3.2	0	-6.6	-1.3	3.2	0.4	-0.1	
4th		289.6	-171.3	-6.9	-5.1	0	-34.9	-0.2	-5.7	-0.1	0.3	
5th		95.8	62.7	-0.8	-1.9	0	30.8	-15.3	0.9	0	-0.1	
6th		2.7	-11.7	2.4	-0.8	0	16.3	-7.9	-2.8	0	0.2	
7th		-14	-7	-0.3	1.5	0	16.5	16.5	0.4	-0.2	0.3	
8th		6	18.7	-1	3.7	0	-16	-39.8	-0.9	0.1	0.2	

RUN/POINT 40/ 5	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3515.2	-1833.9	-453.7	0	185.6	-153.7						
RMS	276.4	161.3	61.7	0	92.3	201.3						
1/2 P-P	507.6	277.7	151.9	0	245.2	384.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	30.4	-39.9	14.7	-34.4	-8	-36.9	0	0	-23.2	-49.9	48.5	-77.6
	360.7	-43.7	212.1	-19.6	56.4	-6.2	0	0	-65.5	10.8	-224.2	11
	94.2	-74.9	53.5	-38.7	3.6	-4.2	0	0	-46.3	38.3	-112.4	67.3
	42.6	-2.5	23.1	-0.3	0.5	-1	0	0	-29.1	4.8	-28.1	1.5
	-15.3	-13.4	-6.1	-5.6	3.5	5.5	0	0	15.6	21	-2.7	-1.6
	9.3	-5	3.9	-0.6	-4.3	3.3	0	0	-13.7	10	9.2	-6.4
	6.3	1.1	3.7	0.2	-1.6	-2.5	0	0	-7.4	-3.4	7.9	4.2
	2.8	-25.8	0.7	-2.6	-5.5	28.7	0	0	-7.1	48	27.2	-53.6
RUN/POINT 40/ 5	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-296.4	-390.9	-188.3	-8691	-2693.8							
RMS	260.9	264.4	179.4	334.2	365.3							
1/2 P-P	467.8	518.5	422.2	719.8	814.3							
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	154.9	-90.4	182.2	-77.5	100.9	-32.9	361	-46.3	5.6	41.5	21.1	-45.8
	-262.8	52.8	-226.8	65	-78.8	43.1	-248.5	32.8	53.4	-21	-27.9	-9.9
	-136.2	82.5	-144.6	84.7	-126.5	71.6	4.7	10.3	-47.3	-19.4	-7	-1
	29.2	-8.4	48.3	-12.9	39.8	-7.9	-59.1	24	423.2	-216.2	-5.2	-7.2
	-12.8	-44	-9.8	-58.2	6.7	-46.3	39.6	24.6	-73.2	-58.3	0.1	0.6
	24.5	-11.5	20.8	-7.7	11.5	-5	-7.2	-5	13.2	3.9	2	0.4
	2.5	-4.6	-9.9	-4.5	-16.3	1	15.6	16.2	-14.8	-12.3	0.2	-1.5
	-6.1	18.6	-20.4	74.5	-29.3	80.8	-19.8	-43	20.9	42.5	-1	3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3213.2	-725.3	3302.6	-1165	1473.7	503.5						
RMS	541.5	5017.7	605	4889.6	4109.3	2544.2						
1/2 P-P	1154.6	7581.5	1249.6	7533	6394.7	5232						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-257.5	-401.6	-6387.8	503.4	-267.2	5974.1	-3374.9	5040.7	-2788.1	2420	-1817	
2nd	141.1	-45	-141.9	-199.9	42.9	676.3	124.4	586.8	96.7	493.4	-47.2	
3rd	-311	-405.3	-437.5	-441.1	320	-410.6	-104.3	-280.6	-37.6	268	248.5	
4th	187.3	-9.6	200.5	187.9	-3.3	35.6	30.3	298.9	-164.8	1400.6	-1101.6	
5th	-48.8	-177.7	226.9	165.2	18	-173.8	45.8	-54.7	38.5	438.1	71.7	
6th	-45.5	26.6	-46.7	43.6	-19.9	-10.8	50.5	-14.8	30.8	9.7	-18	
7th	8.5	-35.2	-21.9	-29.2	-11.2	-17.4	-28.7	-15	-24.5	-23.5	-14.8	
8th	-9.4	22.2	8	-8.4	5.8	7	102.1	2.2	88.3	-15.1	49.5	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1296.9	-394.4	4752.5	-2484.1	5154.4	77.7	510.9	2.7				
RMS	2276.1	73.6	3782	5154.4	77.7	71.1						
1/2 P-P	4699.1	127.7	6930.6	7754.4	144.5	524.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1067.6	-1401.3	-30	2777.5	6691.5	4.2	-54.1	-47	35.8			
2nd	446.5	-141.6	30.7	-585.5	-182.1	-22.4	-39.9	-4.9	3.8			
3rd	662.7	355.4	52.4	-143	331.9	-23.5	-49	-10.2	11.6			
4th	1833.1	-1625.2	32.2	-57.4	182.3	44.3	38.3	16.6	13.6			
5th	652.2	43.4	-15.5	-21.5	-238.4	-7.9	-13.8	12.5	-5.3			
6th	12.4	-51.3	-5.6	48.8	-37.9	8.8	4.2	-5.3	-8.3			
7th	-13.7	2.5	6.6	-19	25.2	8.9	-5.6	-8.8	-1.8			
8th	-0.2	-41.7	4.7	16.5	79.8	4.4	-1.5	-3.7	8.1			

MEAN	3107.2	2256.8	-286.7	839.4	775.3	672.8
RMS	658.6	407.3	219.6	253.2	303.9	585.3
1/2 P-P	1399.4	810.5	468	537.9	650.9	1136.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-604.2	364.4	-416.7	218.2	-158.3	-60.4	-176.2	-70.4	-183	-101.5	-565.4	-229.2	-229.2
2nd	-191.1	87.2	-121	48.6	-42.2	5	-47.1	5.4	-38.3	-0.7	-146.8	-72.5	-72.5
3rd	423.2	-277.7	234.7	-146.8	-142.5	68.8	-168.8	82.4	-222.4	124.4	-466.8	203.8	203.8
4th	180.4	-19	101.9	-12.7	-53.1	-15.3	-59.3	-15.1	-91.7	-10.5	-149.6	-9.4	-9.4
5th	-172.8	-11.5	-68.4	-2.6	162.1	35.6	188.1	41.2	226.8	42.5	0.7	-26.4	-26.4
6th	36.6	-17.7	12.4	-4.9	-43	14.4	-50.5	17.2	-53	22.3	40.3	-4.2	-4.2
7th	33.7	9.1	7.6	0.4	-49	-27.8	-56.7	-31.6	-58.2	-27.3	53.7	48.1	48.1
8th	-26.9	12.9	-1.8	8	51.7	-6.4	60.3	-6.5	54.8	-10	-67.7	-7.4	-7.4

Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $\tau/R=0.725$	Blade 1, $\tau/R=0.800$	Blade 1, $\tau/R=0.144$	Blade 1, $\tau/R=0.400$

MEAN	370.3	-162.3	-747.9	-2602.3	-2613.9	-417.2
RMS	851.5	955.4	682.4	4795.2	2192.8	81.1
/2 P-P	1739.5	1851.1	1389.3	7403.5	4606.8	163.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE		
1st	-711.9	-205.5	-431.4	-93.2	-55.7	-12.1	-5922.4	3176.9	-277.5	1010.1	36.2	8.5
2nd	-745.8	-37.6	-1040.1	-35	-738.9	11.8	679.1	51.2	424.6	-139.5	30.7	30
3rd	-335.4	120	-443.9	67.9	-498.9	29.5	398.8	178	-777.7	-373.7	-57.3	22.1
4th	113.5	36.8	370.8	3.5	251.9	-20.1	-196.3	95.2	2220.2	-1478	63.1	30.2
5th	-423.3	-63.4	-438.2	-36.2	-86.9	-41.2	223.5	-40.3	-585	-69.4	7.8	-25.7
6th	88.7	-47.1	8.1	-3.8	0.6	54.6	-46.1	23.6	46.6	14.6	-10.6	-2.8
7th	40.7	10.4	-33.9	-47.8	-180.7	-29.7	46.5	51.1	-17.9	-37.8	-4.2	-2.2
8th	22.2	16.7	79.7	-9.9	61.4	-67.4	14.2	93.9	-10.4	-109.2	5.7	-0.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1641.7	-2112.4	1730.6	-2913.4	-94.6	-134.6						
RMS	426.6	3719.7	438.5	3809.3	3190	2134.6						
1/2 P-P	808.1	5560.8	862	5811.1	4941	4412.5						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-78.1	-215.5	-1932.3	-4854	242.6	-42	4889.3	-2179.9	4107.2	-1777.6	2019.2	-1200.5
2nd	54.6	-54.7	-313.3	-142.4	-78.4	60.4	376.1	196.9	336.8	157.5	331.7	11.8
3rd	-300	-412.7	79.9	-366.6	-421.9	293.3	-321.7	-74.3	-221.9	-21.7	199.9	212.4
4th	173.5	2.6	-228.7	92.3	179.8	24.8	28.3	85.8	296.2	-119.1	1447.4	-1063.2
5th	-21.5	-86.7	-43.2	151.5	108.1	0.8	-162.3	-8.9	-60.8	0.4	338.8	76.3
6th	-58	27.4	49.4	-36.2	50.2	-11	-30.6	59.5	-28.6	36.8	9.6	-16.8
7th	9.6	-31.6	2.5	6.6	-18.4	-14	-15.6	15	-12.8	9.7	-9.7	-2.3
8th	-6.2	-17.4	-68	1.1	-1.7	8.5	-79.9	7.1	-70.1	-3.9	-50.4	-3.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1539.1	-421.2	4679.5	-4136.9	-520.7	-38.2						
RMS	2094.8	53	5121.7	3805	60.6	31.4						
1/2 P-P	4264.2	119.6	7797.9	5772.6	123.2	57.3						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	934.3	-954.3	-25.8	0.6	-4182.8	-636.1	1865.9	5015.9	7.7	-46.1	-31.2	27.8
2nd	324	-89.7	-15.5	16.4	3276.3	-819.8	-323.3	-173	17.6	-9.8	-6.1	5.1
3rd	514.2	292	44.9	12	-3119.6	714.3	-104.6	314.4	18.4	-41.9	-5.7	-1
4th	1901.7	-1612.4	24.2	35.5	1247.3	871.5	-16.7	48.4	28.8	37.9	6.8	6.1
5th	515.4	87	-5.3	10.1	548.1	489	94.1	-165.7	-12.3	-4.9	3.6	0
6th	29.4	-61.8	0.1	-7.3	20.1	-95.7	45.9	-10.3	0.1	6	0.2	-1.8
7th	-8.8	-5.9	5.3	4.1	1021.4	-1064.6	3.3	23.2	4.3	-3.4	-0.3	-2
8th	30.3	-7.4	1.5	2.1	-1618.5	-100.1	-65.6	18	-0.4	4.2	-0.7	0.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325		
21/9													
MEAN	269		-3406.3		324.8		-4064.4		-1127.5		-481.6		
RMS	378.9		2557.8		388.5		2674.6		2232.4		1633.2		
1/2 P-P	650.3		3932.5		650.4		4152.4		3580.9		3427.8		
HARMONIC													
1st	57.7	SINE	-57.1	COSINE	-3368.5	SINE	81.2	COSINE	-1341.9	SINE	-1075.4	COSINE	-737.5
2nd	22.7		-38.9		-136.2		56		163.1		133.5		20.2
3rd	-297.4		-400.7		-260.9		284.1		-243.5		-42		186.9
4th	149.9		8.2		110.5		23.5		60.1		-107.9		-897.7
5th	-0.6		-42.2		118.5		5.6		-34.4		-13.7		91.8
6th	-46.3		19.6		6.6		-11		9.7		2.4		-5.8
7th	-0.3		-29.1		-18.2		-4.8		-37.6		10.8		-4.9
8th	-16.8		-23.7		-15.8		-13.8		-124.7		-107.7		-72
													-0.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		
21/9	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1		
MEAN	-1604.4		-417.2		3511.3		-5187.6		-504.3		-56.9		
RMS	1730.1		54.7		5243.1		2708		57.4		19.8		
1/2 P-P	3517.8		120.4		8141		4178		122.2		40.2		
HARMONIC													
1st	707.7	SINE	-592.6	COSINE	-24.4	SINE	15.5	COSINE	-3612.2	SINE	3613.1	COSINE	-15.4
2nd	231.1		-57.3		-28.1		2.2		-2556.5		-121.6		-8
3rd	369.5		244.6		55.3		15.2		3368.1		23.4		-2.5
4th	1682.9		-1353.8		16.5		23.1		780.6		42.3		5.3
5th	395		123.7		-2		9.5		998.7		-106.6		2
6th	-1.6		-20.1		1.6		-6.4		-73.6		7.6		0
7th	-16.8		22.7		5.6		1.8		675.8		31.7		-0.4
8th	49.5		8.8		-1.1		4.5		-530.7		-103.1		0
													-0.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	283.7		504.9		-576		515.5		507.3		289.6	
RMS	379.1		220.2		171.8		199.1		246.5		495.2	
1/2 P-P	661.7		400.5		405.2		466.4		537.8		920.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-197.9	-43.6	-152.9	-40.9	-107.6	-81	-120.6	-92.4	-137.5	-105.9	-403.6	-207.7
2nd	-26.4	41.1	-21.1	23.9	-38.7	1.8	-45.1	2	-46.4	0.5	-136.2	-25.4
3rd	388.3	-253.4	214.1	-131.3	-138.9	65.2	-165.6	77	-219	119.5	-452.5	208.2
4th	148	14.9	80.5	4.3	-54.8	-26	-62	-28.8	-92.2	-29.1	-120.8	-20.4
5th	-48.5	-24.4	-20.2	-7.4	39.9	34.1	47.3	39.7	61	48.3	7.8	-15.5
6th	44.2	-9.7	13	-1.3	-55.2	9	-63.5	11.5	-70.6	16.5	48.8	2.9
7th	13.8	2.3	-1.9	-1.4	-35.4	-13.5	-41.1	-15.2	-39.9	-11.2	37.5	27.6
8th	5.4	-28	-2.6	-4.3	-21.2	41.9	-23.5	50	-19.3	50.6	39.6	-56.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	44.8		-243.1		-519.6		-5630.4		-2719.6		-428.6	
RMS	626.7		720.3		605.6		2647.5		1784.3		64.4	
1/2 P-P	1198.1		1481.7		1260.2		4096.2		3370.9		136.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-452.4	-218	-322.4	-159.1	-11.4	-5.5	-3440.1	1408.6	-245.1	471.7	23.1	-4.2
2nd	-528.8	23.9	-724.3	40.9	-576.9	38.6	205.1	122.5	264.9	-120	-34.9	1.9
3rd	-376.9	223.8	-430	223	-457.8	145.5	234.8	68.3	-519.7	-243.4	-63.5	-25.6
4th	158.7	42.6	353.3	13.8	262.5	-8.2	-161.9	88	2068.1	-1115.7	27	26.6
5th	-101.8	-71.8	-37.6	-69.2	184.3	-48.3	89	40.7	-248	-142.2	2.3	-13.1
6th	106.1	-33.4	21.5	0	15.8	31.5	-1.5	-19.5	-26.3	40	4.7	-8.5
7th	33.2	3.5	-42.2	-32.7	-191.9	-11.3	53.6	1.2	-25.9	-13.4	-4	-2
8th	-24.6	26.2	-23.4	78.8	-62.5	62.3	-103.9	-5.6	110.8	-4	0.3	3.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
21/8												
MEAN	-423.2		-3977.9		-377.2		-4669.7		-1668.7		-682.2	
RMS	419.2		1581.5		412.7		1773.6		1486.8		1291.9	
1/2 P-P	695.8		2613.3		691.4		2926.1		2572.4		2706.3	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	34.3	-238.1	-879.9	-2008.3	213.3	55.8	2277.9	-970.3	1910.2	-779.5	918.5	-540.7
2nd	6.1	-37.4	-158.9	-56.8	-17.6	52.3	224.7	69.6	205.4	55.1	246	-20.7
3rd	-310.1	-408.8	60.8	-189.9	-407.1	300	-170.8	-60.1	-125	-13.4	113.6	150.7
4th	138.6	9	-225.8	84.8	152.5	12.7	7	45.3	226.3	-108.9	1159.7	-808.8
5th	52.4	-39.3	-76.3	138.9	63.6	36	-135.3	-51.7	-57.1	-19.9	231.2	151.5
6th	-55.3	20.9	27.3	-12.9	51.4	-12.9	-29.4	15.4	-28.4	6.1	6.7	-4
7th	-5.1	-20.1	-7.3	-1.1	-18.4	-3.4	-21.8	-10.1	-19.8	-12.8	-11.1	-9.3
8th	-5.8	-27.3	-140.6	-19.6	-1.1	-23.9	-157.1	-15.4	-137.4	-26	-81	-9.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
21/8												
MEAN	-1662.5		-405.8		1485.8		-5747.5		-489.1		-64.5	
RMS	1512.4		55.5		4665.8		1699.8		54.6		18.4	
1/2 P-P	2997.4		116.9		8731.5		2833.1		113.1		34.5	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	404.9	-434.4	-19.4	27.9	1268.3	-3058.3	870	2206	-15.7	-25.7	-16.3	14.3
2nd	244.9	-80.9	-30.8	-1.2	-2424.6	-2243.9	-171.7	-71.6	33.4	3	-7.3	1
3rd	305.6	202.6	57.1	11.4	-2243.3	1697.1	-91.1	167.3	19.4	-52	-10	-1.7
4th	1529.3	-1215.2	7	19.4	345.9	2348.3	-51.9	84.4	13	19.7	4.6	2.2
5th	363.3	222.7	1	8.8	1650.4	550.2	100.1	-143	-12.3	1	0.8	-0.7
6th	25.8	-20.2	3.1	-6.7	715.5	-886.4	11.9	30.1	-1.4	5.4	0.5	-2
7th	6.9	0.3	2.6	2.1	-225	-534.8	-22.9	-3.3	3.2	-1.9	-1	-0.9
8th	66.1	10.9	-1.1	7.2	-125	-128	-144.5	-17.7	0.3	5.8	-0.4	-1.1

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
21/ 8		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-397	81.6		-643.8		441.4		445.3		192.2			
RMS	457.7	272.6		174.1		202.7		248.9		471.8			
1/2 P-P	762.7	460.3		428.9		490.5		565.4		855.5			
HARMONIC		SINE		SINE		SINE		SINE		SINE		SINE	
1st	-389	-2.7		-18.2		-72.5		-83.7		-95.6		-190	
2nd	-4.8	32.8		19.6		2.1		2.2		1.5		-9.8	
3rd	403.2	-271.5		-141.8		65.6		77.7		121.1		209.5	
4th	144.8	18.4		7.3		-23.9		-26.8		-26.8		-12.1	
5th	-25.5	-57.6		-19.8		64.4		74.8		91.6		-14.7	
6th	47.3	-17.2		-5.6		11.5		14.4		21		1.2	
7th	16.2	0.4		-2		-10.9		-12.1		-8		28.2	
8th	3.7	-40.3		-5.6		65.2		77.1		75.7		-86.5	
RUN/POINT		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
21/ 8		Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-34	-278.2		-461.8		-6190.9		-2716.9		-417.1			
RMS	572.4	647.4		554.9		1667.8		1607.6		62.7			
1/2 P-P	1089	1345.6		1148.9		2782.1		2943.2		126.9			
HARMONIC		SINE		SINE		SINE		SINE		SINE		SINE	
1st	-392.3	-193.8		-149.5		-18		1040.9		346.7		-15.7	
2nd	-449.4	37		58.1		47.7		70.3		-102.3		1.7	
3rd	-379.4	233.3		233.6		164.3		74.6		-186.5		-20.2	
4th	131.3	42.7		11.9		-6.8		118.9		-1196.2		20.2	
5th	-30.6	-156		-177.1		-135.1		89.4		-263.9		-14.8	
6th	106.3	-39.1		-2.9		26.4		-20.9		-61.1		5.3	
7th	33.4	-3.3		-30.5		-0.1		6.7		-2.8		-1.8	
8th	-23.8	36.6		114		105.8		-19.2		5.7		5.2	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
21/7												
MEAN	-1042.4		-4647.8		-1030.7		-5050		-2015.8		-769.8	
RMS	383.5		1172.2		376.3		1317.4		1102.7		1082.9	
1/2 P-P	645.9		2015.1		619.4		2314.6		2021.1		2263.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	60.6	-76.3	-489.7	-1535.5	53.8	67.6	1754.9	-519.4	1464.4	-407	723.1	-308.2
2nd	-26.3	-37.8	-73	-51.5	11.5	45.6	131	57.3	125	44.3	182.7	-21.8
3rd	-302	-393.5	60.3	-131.8	-390.9	293.6	-113.8	-59.7	-84.6	-14.9	84.7	123.1
4th	136.7	16.1	-192.7	93.9	145.7	15.2	-1.7	29.6	205.6	-93.4	1070.8	-646.9
5th	81	-55.8	-117.9	133.4	63.4	63.6	-148.8	-87	-68	-41.2	205.9	197.8
6th	-57	17.9	19.5	-6.4	50.8	-14	-37.4	9.5	-31.7	2.3	3.2	6.5
7th	1.4	-20.1	29.1	10.9	-17.2	-0.7	32.3	-7.4	28.1	-5.4	-1.6	-10.6
8th	-0.2	-57	-122.4	-83.3	8.2	-33	-140.2	-97.3	-114.1	-97.1	-73.7	-44.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
21/7												
MEAN	-1668.7		-391.8		862.3		-6212.5		-469.9		-72.1	
RMS	1328.3		55.2		4595.8		1241.4		53		15	
1/2 P-P	2545.4		116.4		8910.6		2147.1		110.6		30.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	329.5	-267.5	-15.8	34.9	1087	-3187.6	416.3	1672.2	-21.9	-20.7	-11.5	11.8
2nd	186.6	-65.4	-31.6	-5.7	-2517.4	-1929.5	-72.7	-43.9	36.5	6.5	-6.8	0.3
3rd	231.3	173.6	55.1	7.2	-1962.3	1796.4	-82	117.7	16.8	-49.1	-10.2	-0.6
4th	1426.2	-980.2	1	15.5	532.4	2151.3	-68.8	58.6	8.4	17.5	2.9	1.4
5th	353.5	293.9	4.4	6.9	1606.9	411	128.1	-126.4	-8.1	5	-0.4	0
6th	28	-11.2	5.6	-6.4	734.4	-1013.8	11.1	29.8	-4.8	6	0.7	-1.4
7th	-24.1	3.3	1	2.1	-393.4	-777.3	30.2	0	2.9	1.2	-0.8	0.3
8th	53.3	41.9	-2.5	7.9	-516.9	-74.6	-117.7	-84.7	-2.7	7.1	0.2	-0.7

RUN/POINT 21/ 7	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1022.4	-306.2	-705.5	373.8	388.3	109.2						
RMS	388.2	222	168	196.3	241.6	426.4						
1/2 P-P	662.7	386.2	418.3	487.7	562.2	767.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-220.5	-11.6	-157.1	-23.3	-95.1	-66.2	-108	-76.7	-120.1	-86.3	-279.7	-163.7
	22.3	29.7	8.9	18	-35.2	2.4	-41.6	2.7	-46.3	2.6	-142.1	-12.4
	384.5	-265.7	214.4	-139.3	-125.1	62.8	-148.8	74.1	-201.3	115.7	-419.9	201.5
	135.9	19.6	74.8	9	-46.5	-21.6	-53.4	-24.4	-79.4	-24	-100.3	-13
	-39.1	-78.4	-16.9	-28.9	18.5	82.2	22.5	95.6	34	116.9	11.2	-12.7
	49.2	-16.9	17	-5.3	-57.5	10.3	-66.9	12.9	-74.3	19.5	57.1	4.8
	16.9	1	3.1	-1.1	-27.8	-10	-31.9	-11.4	-32.7	-7.7	27.7	21
	5.3	-50.4	-2	-8.3	-24.4	78.3	-26.5	92.3	-20.7	91	57.9	-103.1
RUN/POINT 21/ 7	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-106.4	-314.8	-409.8	-6710.2	-2716.7	-402.3						
RMS	519.4	578.7	494.1	1237.1	1415.3	58.3						
1/2 P-P	984.2	1196.1	1045.6	2150.5	2688.4	115.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-309.5	-168.3	-234.6	-129.9	-7.3	-19.8	-1601.9	600	-100.4	226.8	15.3	-24.3
	-376.7	26.4	-497.4	44.8	-417.1	38.8	123.7	51.8	198.5	-83.7	-36.1	-3
	-366.7	234.6	-370.5	226.9	-356.1	159.8	118.5	70.2	-331.8	-151.7	-60.2	-16.2
	127.2	43.4	263.3	31.1	211.5	10	-143.1	83.8	1660.3	-901.4	10.3	14.9
	-37.4	-213.9	14.5	-245.5	165.1	-177.1	119.3	104.2	-233.9	-292.8	-6.4	-11.6
	103.7	-34	35.5	-15.8	17	11.9	8.9	-22.3	-42.3	36.9	8.2	-8.5
	30.2	-4.2	-43.7	-20.5	-158.2	0.5	32.1	22.4	-23.2	-17.5	0.1	-1.7
	-26.2	39.7	-30.7	138.2	-68.1	133.1	-123.9	-75.3	132	57.4	-1.4	7.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
21/ 6												
MEAN	-2359.3		-5636.4		-2379.2		-5931		-2811.9		-1029.1	
RMS	298.6		355.5		305.7		444		373.4		608.8	
1/2 P-P	629.1		771.8		658.6		952.6		869		1164.1	
HARMONIC												
1st	24.1	63.5	121.9	-349.3	-112.1	22.4	524.6	140.4	428.8	127.5	217.3	30.8
2nd	-141.8	-18.3	69.3	-5.8	136.1	29.9	-53.4	16.6	-25.5	7.4	69.5	-20
3rd	-215.6	-283.9	43.2	-37.8	-290.9	212.4	-27	-41.7	-26.4	-9.3	28.8	73.5
4th	97.9	3.4	-136.1	99.5	102	2.4	-0.6	20.8	128.3	-52.6	672	-403.6
5th	67.7	-51.7	-109.2	85.6	55.4	67.2	-121.1	-81.9	-58.1	-40.4	143.9	158.5
6th	-40.6	18.7	15.9	13.6	41	-19.4	-11	9.5	-8.3	4.2	14.4	0.5
7th	5.7	-21.1	15.6	-24	-11.7	-3.6	22.6	-41.2	22.4	-33	1.4	-11.7
8th	-10.7	-76.4	-161.5	-113.8	8.6	-60.9	-175.5	-131	-146.1	-125.2	-91.8	-55.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
21/ 6												
MEAN	-1736.3		-356.4		-2202.6		-7208.9		-423.3		-74.7	
RMS	820.3		49.9		374.9		392.1		44		11	
1/2 P-P	1516.4		107		1517.1		820.2		93.5		21.9	
HARMONIC												
1st	114.5	-22.3	-13.8	47.6	73.5	-88.3	-165.7	420.3	-34.7	-16.8	-6.8	9.7
2nd	103.6	-45.8	-29.6	-8.3	-180.1	-92	93.5	2.4	29.9	7.9	-4	-0.8
3rd	95.4	105.2	35	1.9	145.8	262.4	-61.9	26.4	6.9	-31.7	-7.3	0.8
4th	891.8	-597.3	-6	5.1	37.2	40.6	-59.9	22	-2.3	0.9	1.9	-1.6
5th	254.1	242.5	5	-2.8	-79.9	125.7	131.6	-87.9	0.3	7.3	-1.6	1.6
6th	20.3	-14.8	5	-5.2	10.8	74.5	16.4	8.8	-4.9	5.9	0.9	-1
7th	-15	23.6	-2	4.2	64	11.1	26.3	-33.9	3.9	4.6	-0.3	0.5
8th	61.2	61.6	-1.4	9.2	24.5	-130.1	-149.8	-131.2	-1	10.5	0.3	-0.6

MEAN	-2319.2	-1109.4	-832.1	234.5	273.6	-50.4
RMS	291	159.2	141.7	166	192.8	309.3
1/2 P-P	589.2	295.4	393.8	453.7	493.4	607.4

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-67.7	24.2	-56.4	0.7	-61.7	-47.8	-70.7	-56.1	-78.8	-63.5	-113.8	-114.7
2nd	150.6	16.1	84.6	11.9	-36.9	2.4	-43.5	2.4	-57.8	2.7	-171.7	-12.8
3rd	288.6	-189.2	160.7	-98	-89.6	44.8	-106.8	53.4	-144.3	82.7	-309.2	146.8
4th	94.5	4.1	51.3	1.2	-37.6	-8.7	-42.8	-9.2	-61.8	-7.2	-64.1	-5.3
5th	-32.5	-76.7	-14.9	-31	10.7	72.6	12.8	84.6	22.7	104	5.5	-5.6
6th	39.4	-17.2	14.5	-5.1	-43	14.8	-49.6	18	-55.9	23.3	39.2	-4.3
7th	13.8	2.8	2.7	-0.2	-20.7	-8.3	-24	-10.3	-24.4	-7.3	25.2	11.8
8th	8.3	-59.3	-3.1	-10.4	-33.8	88.8	-37.6	104.6	-29.8	103	70.1	-109.3

	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
RUN/POINT	Blade 1, $\tau/R=0.725$	Blade 1, $\tau/R=0.800$	Blade 1, $\tau/R=0.900$	Blade 1, $\tau/R=0.400$
21/6				

MEAN	-236.7	-375.6	-303	-7748.8	-2759.9	-363.3
RMS	375	411.8	352.5	367.9	943.6	46.7
1/2 P-P	765.3	818	825.9	768.1	1817.8	98.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-98.3	-127.5	-67.8	-105	14.1	-33.1	-408.9	-27.9	55.4	12.2	-35.7	-35.7
2nd	-272.7	39.7	-299.4	58.5	-224.4	43.9	-52.8	10.6	-59.9	-31	-7.9	-7.9
3rd	-296.1	170.9	-283.8	167.9	-235.2	130.3	24.6	52.8	-85.6	-39.1	-5.9	-5.9
4th	82.4	16.5	144.3	15.1	119.3	8.4	-125.2	47.1	-506.3	1.3	-1.7	-1.7
5th	-8.2	-199.8	21.3	-248.1	87.6	-184.3	80.5	105.3	-253.9	-7.1	-1.7	-1.7
6th	78.2	-29.8	44.5	-17.2	21.3	-0.8	-14.4	4.6	-9.6	5.8	-6.7	-6.7
7th	13.7	-6.9	-38.5	-7.1	-95	7.2	24.5	-13.5	7.4	2.9	-3.7	-3.7
8th	-23.3	40.3	-51.8	154.4	-77.8	161.4	-152	-129.8	114.3	-0.7	7.7	7.7

RUN/POINT 21/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3599.7	205.7	247.7	306.3	-273.9	128.8	-167.2	255.9	-155.1	221.2	-57	92.2
RMS	338.5	58.8	267.7	-52.7	404.9	-46.4	-278.7	62.7	-205.6	38	-61.3	9.1
1/2 P-P	596.2	-64	2.4	-10	-59.2	74.6	-11.7	3	-8.9	6.9	18.6	16.9
		45.4	-20.1	58.9	45.8	-18.9	-16.5	13.8	35	-24.3	231.6	-206.6
		-27.4	6.3	-12.7	-2.3	-35.4	6.6	40.3	4	18.5	4.3	-62.5
		-5.5	8.8	-2	6.9	-11.2	8	3.6	4.6	0.3	5.6	-4.9
		-6.5	-7.1	18.9	-5.4	6.8	0.7	22.8	-2	16.2	-1.1	-0.7
		-5.1	-1.1	17.2	-8	2.7	-24	25	-19.1	18	-19.5	20.7
RUN/POINT 21/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1824.8	31.7	-19.1	52.4	-91.1	-173.7	-246.3	-221.9	-43	-22.8	-1.5	5.2
RMS	326.2	-14.4	-34.4	-12	-413.9	60.2	312.9	-34.7	29.3	10.7	-0.7	-2
1/2 P-P	710.9	19.7	-2.6	-5.6	76.8	66.5	-8.1	13.8	-3.1	-2.5	-1.6	2.7
		-295.2	-9	2.4	44.2	-18.1	-34.6	7.1	-7.7	0.8	-0.6	-0.8
		-17.5	-5.6	1.5	27.1	-3.8	-28	-7	-1.2	-4.8	0.1	1.4
		-3.1	3.3	-1.8	-5.8	9.4	11.9	-9.5	-4.5	1	0.3	0
		-1	0.6	0	7.7	5.8	-1.6	19.6	-0.1	-0.1	-0.9	0
		-12.7	0.7	0.6	-19.6	1	-26.1	18.9	1.7	1	-0.2	-0.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-3533.1	-1863.5	-947.6	108.9	173.2	-172.4						
RMS	323.5	189.1	66.2	78.2	95	223.4						
1/2 P-P	568.3	330.4	184.8	216.9	235.3	429.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	96.3	-89.3	-65.1	-18.7	-45.9	-20.8	-53.5	-19.6	-55.5	86	-84.8	
	417.8	-62.5	-30.4	-43.3	7.1	-52.6	8.4	-85.9	14.4	-260.2	25.8	
	69.3	-72	-36.9	-24.1	22.9	-28.9	27.2	-36.4	38.5	-98	67.7	
	43.6	-16.9	-8.5	-20.8	6.6	-23.5	8.3	-31.9	11.8	-24.7	2.2	
	0.2	20.2	0.2	1.4	-16.1	1.8	-18.3	2.1	-21.1	-4.3	1.6	
	5.7	-7	-2.5	-5.3	7.5	-6.1	9.1	-7	9.7	0.5	-5.9	
	6.2	-6.2	-1.7	-8.9	7.5	-10.3	8.4	-10.3	10	13	-7	
	-6.1	-6.3	-0.4	10.2	10.5	12.6	13.3	11.4	13.2	-11	-19.2	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	-323.1	-403	-197.7	-8886	-2848.6	-313.3						
RMS	290.1	282.3	175.6	292.1	337.7	43.1						
1/2 P-P	481.1	555.5	412.1	705.7	763.4	84.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	192.6	-90.6	-75.7	108.7	-31.2	229.3	-125.4	-33.3	15.4	19.7	-42.4	
	-291	65.2	74.1	-74.2	47.9	-273.6	49.3	59.8	-28.5	-35	-11.1	
	-141.8	93.8	96.9	-138.2	77.2	13.4	9.5	-56.1	-4.4	-2	4.4	
	16.7	-13.6	-12.7	25.2	-6.3	-37.6	24.4	359.9	-249.6	-7.4	-0.9	
	10.9	30.1	29.3	18.5	19.1	1.6	-31.8	2.5	58.9	4.7	-0.8	
	20.1	-15.7	-20.1	27.2	-16	2.5	-5.1	11	0.8	4.2	-1.3	
	1.8	-3.2	10.2	-7.2	13.5	-0.8	22.1	5.6	-13.7	0.1	0.4	
	6.5	4.4	25.1	9.7	32.3	-30.3	17.3	29.7	-19.6	0.4	1.1	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3305.1		-400.1		3465		-1025.4		1617.9		481.8	
RMS	575.8		6934.7		508.3		6017.9		5035.9		3128.3	1/2 P-P
	1071		10353.7		995.3		8990		7688		5960.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
	487.9	150.1	-4754.1	-8513.8	-101.9	321.4	6570.4	-5338.4	5544	-4401	2743.9	-2797.7
	253.1	-31.8	-650.8	-404.6	-260.5	57.7	642.9	320.6	541.9	268.7	467.1	80.8
	-309	-425	138.3	-462.2	-451.2	250.2	-346.8	-4.6	-238.7	76.3	265	469.3
	180.5	20.9	-285.6	259.1	198.5	23	116.2	164.8	353	-98.1	1373.5	-1255.1
	20	-136.5	-45.3	219.5	109	70.4	-123.2	-84.4	-30	-31.7	325.4	209.4
	-35.8	14.5	49.8	-31.5	36.3	-16.1	-3.1	37.1	-2.9	25.9	12.3	-17.3
	27.4	-31.4	41.5	-24.9	-12.3	-24	-9.5	-45	-4.6	-39	-21.8	-22.7
	-35.9	40.7	-43.8	164.7	-47.3	-1.9	-43.6	163.2	-54.7	146	-34.7	65.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1359		-418.6		3401		-2315.8		-535.7		-30.7	
RMS	2641		83.3		562.8		6793.2		114.5		44.8	
1/2 P-P	5275.7		162.6		1089		10373.5		264.4		103.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
	1266.6	-2063.9	-55.2	-10.3	-392.3	-129.3	4801.3	8260.6	35	-73.4	-34.6	42.3
	418.7	-33.9	46.1	48.5	317.3	-39.6	-721.6	-403.5	-79.2	-60.3	7.7	7.9
	625.9	622.6	37	-20.9	319.6	445.7	-183.1	383.1	5.1	6.1	3.3	2
	1725.9	-1915.6	46.1	27.7	162.6	24.1	-83.1	107.8	80.9	-0.1	22.3	3.9
	511.5	283.2	-13	23.7	-20.2	153.1	42	-170.1	-34.6	-12.5	5.6	-11.2
	18.9	-40.5	-10.1	-6.2	-33.5	7	27.9	-35.1	26.5	7	-6.8	-0.8
	-22.9	30	6.6	1.1	-18.8	28.9	5.4	3.1	2.3	-8.5	-1	-0.9
	31.3	-68	7.1	3.6	-20.2	39.5	-82.3	151.1	13.6	3.4	-0.8	0.8

RUN/POINT 15/32	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3264.7	-202.3	-143	-87.2	-87.2	-95.8	-134.2	-117.3	-146.1	-138.5	-524	-264.2
RMS	515.5	-301.5	146.4	83.2	-85.5	29.6	-43.7	1.8	-25.9	-5.5	-103	-86.8
1/2 P-P	979.2	467.5	-255.3	-135.1	-0.6	-20.6	-180.3	65.8	-246.5	105	-532.5	169.5
		161.1	-12.8	-9.6	19.8	-18.9	-51.4	-21.1	-77.4	-17.5	-150.8	-9.8
		-169.3	-61.9	-21.8	52.2	38.6	165.4	95.1	205.6	106.4	12.5	-22.8
		30.6	-10.2	-1.9	-16.5	5.8	-38.4	11.9	-40.2	15.9	32.6	-5.1
		24.5	22	3.9	-26.9	-25.7	-48.9	-49.7	-51.2	-45.8	41.6	63.5
		-22.2	4.9	12.7	31	24.3	54.1	25.3	52.6	15.2	-52.7	-41.7
RUN/POINT 15/32	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	368.3	-172.3	-425	-104.6	-61.3	1.5	-7307.2	4725.7	-556.8	1333.2	72.8	44.6
RMS	849.5	952.4	-1012.4	-128.1	-724.6	-38.3	721.4	141.9	435.6	-83.8	80.3	23.6
1/2 P-P	1794.2	1960.9	-504.3	75.1	-538.6	-0.2	409.5	184.4	-808.1	-575.4	-11.7	13.1
			297.4	95.4	188.7	54.1	-204.1	21.4	2255.1	-1166.5	124.1	2.6
			-413.4	-174.1	-69	-92.1	201.4	30.1	-523.7	-217.5	0.7	-63.3
			-9.2	0.7	-31.7	48.5	-50.6	10	108.8	-6.5	-27.3	3.1
			-29	-51.2	-166.2	-64.7	57.9	44.8	-6	-52.2	-0.6	-1.3
			74.2	28.7	83.7	-33.2	-65.2	154.7	62.5	-176.8	7.4	1.3
RUN/POINT 15/32	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	368.3	-172.3	-425	-104.6	-61.3	1.5	-7307.2	4725.7	-556.8	1333.2	72.8	44.6
RMS	849.5	952.4	-1012.4	-128.1	-724.6	-38.3	721.4	141.9	435.6	-83.8	80.3	23.6
1/2 P-P	1794.2	1960.9	-504.3	75.1	-538.6	-0.2	409.5	184.4	-808.1	-575.4	-11.7	13.1
			297.4	95.4	188.7	54.1	-204.1	21.4	2255.1	-1166.5	124.1	2.6
			-413.4	-174.1	-69	-92.1	201.4	30.1	-523.7	-217.5	0.7	-63.3
			-9.2	0.7	-31.7	48.5	-50.6	10	108.8	-6.5	-27.3	3.1
			-29	-51.2	-166.2	-64.7	57.9	44.8	-6	-52.2	-0.6	-1.3
			74.2	28.7	83.7	-33.2	-65.2	154.7	62.5	-176.8	7.4	1.3

RUN/POINT 15/31	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1733.6	-1987.2	-170.6	-5402.5	209.3	166.4	5229.4	-2817.6	4400.2	-2301.1	2182.2	-1528.6
RMS	433.3	4231.7	-90.9	-147.8	-65.3	71.8	382.9	251.4	344.3	208.2	360.4	54.7
1/2 P-P	764.6	6435.1	-429.1	-347.1	-447.5	251	-319.8	-126.7	-221.7	-48.3	202.2	285.2
HARMONIC	163.6	32.1	32.1	32.6	175.6	50.2	51.2	91.5	312.6	-60.9	1446.5	-748.6
	-14.9	-140.2	-67	192.5	148	16.2	-240.4	-9.3	-103.9	5.4	424.1	136.7
	-59.9	5.5	51.7	-14.1	51.8	7	-27.3	55.4	-18.2	38.3	12.7	-11
	25.1	-34	-13.4	-17.3	-9.3	-17.7	-12.1	-53.8	-4.2	-48.5	-14.9	-25.5
	3.7	-10.5	-26.4	-14.1	-7.9	-3.3	-44.1	-32.3	-37.5	-32.7	-21	-26.3
RUN/POINT 15/31	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1660.5	-1195.4	-32.6	0.9	-116	184.8	2463.9	5412.5	12.6	-49.3	-28.9	21.2
RMS	2082.6	-50.1	-16.2	17.8	56	-87	-322.9	-212.8	13	-12.1	-5.5	4
1/2 P-P	4320.2	407.3	38.5	14.1	240.9	441.8	-156.2	302.3	22.1	-32.2	-4.7	-3.2
HARMONIC	1912.9	-1195.1	20.2	38.9	178.4	42.1	-51.1	104.4	28.9	44.8	4.5	8.3
	700.5	135.2	-6.2	7.4	20.1	145.2	108.7	-192.8	-4.8	-6.3	3.6	0
	30.2	-43.4	2.1	-7.8	-52.6	-4	54.8	-1.9	-2.1	7.4	0.2	-1.7
	-12	38.5	5.3	4	-22.3	33.2	11.5	-20	4	-0.9	0.7	-1.7
	24.9	8.1	-0.4	2	7.8	-5.3	-34.6	-32.4	-1.3	2.5	-0.5	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	284.6	-3412.5	398.6	-4065.3	-1102.4	-614.9						
RMS	403.7	2889	389.5	2913.3	2427.7	1707						
1/2 P-P	689.7	4440.6	646	4611.3	3906.6	3475.4						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	216	32.9	-1457.8	-3786.1	-16.7	171.1	3783.2	-1566	3161.6	-1258.6	1607.2	-860.3
2nd	32.6	-59.7	-183.1	-136.8	-34.2	47.6	163.7	199.6	152.1	167.2	221.7	44.9
3rd	-256.3	-423.2	86.8	-254.7	-425.3	231.4	-240.3	-78.9	-176.5	-11.6	116.1	247.4
4th	142.9	33.2	-211.9	34.3	158	46.8	51.3	86.1	287	-60.6	1327.1	-714.4
5th	-5.6	-54.8	-60.5	136.8	69.1	-7.4	-131.8	-76.6	-50	-45	242.5	134.5
6th	-45.2	8.6	20.8	13.7	50.5	-2	6	6.1	4.2	-1.3	-19.5	-13.9
7th	8.9	-19	6.5	12.5	-13.6	-5.6	-2.5	10.1	-3.9	4.5	-13.5	-17.6
8th	-3.1	-24.9	-118.9	-54.7	4.2	-19	-132.3	-51.5	-119.2	-54.2	-59.4	-40.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1752.8	-431.9	490.6	-5277	-516.3	-72.3						
RMS	1726.9	54.7	405.9	2910.4	55.3	16.8						
1/2 P-P	3526.3	127.7	688.1	4540.6	116.5	32.9						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	784.3	-687.2	-28	13.1	-147.5	7.9	1444.1	3828.2	-0.2	-36.7	-13.1	13.3
2nd	239	-29.8	-30.6	1.8	38.4	-54.2	-178.3	-177.4	25.8	1.6	-7.4	1
3rd	337.9	342.1	50.4	19.5	259.5	447.4	-104.5	235.2	29.4	-42.4	-8.6	-3.5
4th	1752	-1135.7	13.9	26.7	161.7	44	-32.1	62.6	20.5	27.5	4.5	5.4
5th	409.7	190.2	-4.6	7.7	6.3	49.5	86	-125.2	-7.7	-4	2.3	-0.9
6th	-21.8	-16.5	3.5	-7.7	-51.3	-0.2	26	3.4	-3.4	6.7	0.8	-1.3
7th	-14.2	-6	3.3	1.7	-7.3	24.9	1.1	32.4	2.1	-1.6	-0.3	-0.2
8th	51.4	26.4	-2.7	4.5	1.1	-31.9	-122.6	-72.1	-2.5	6	0.2	-0.4

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
15/30												
MEAN	412.3	591	521.4	596.2	511.9	287.3						
RMS	377.5	219.1	103.5	195.8	245.7	496.7						
1/2 P-P	657.2	425.9	221.6	445.1	512.9	926.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-127.8	-162.6	-109.3	-116	-72.3	-97.1	-112.6	-107.6	-128.6	-120.6	-396.4	-236.9
2nd	-47.8	49.3	-34.4	29.2	-34.8	7.6	-42.7	0	-43.3	-2.6	-126.6	-42.1
3rd	409.8	-202.6	223.3	-104.1	-7	-16	-169.6	57.2	-234.4	91	-475.2	150.8
4th	141	46.9	76.9	22.6	9.2	-11.1	-56.8	-37	-84.1	-41.3	-113.1	-38.4
5th	-50	-31.2	-21.9	-8.5	11.6	21.5	44.4	52.7	56.9	62.9	7.3	-16.7
6th	42.4	4.5	12.7	3.6	-26.6	-1.3	-59.3	-3.6	-66.6	-0.7	49.3	14
7th	10.1	4.5	-0.9	-2.7	-15.4	-15.1	-26.1	-23.6	-28.7	-19.2	21.4	36.6
8th	11.5	-10.8	-2.8	-1.1	-21.3	12.5	-33.8	21.8	-28.3	20.8	44	-17.3
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
15/30												
MEAN	52.4	-244.3	-522.8	-5659.9	-2832.9	-441.2						
RMS	631.4	725.1	607.2	2914.2	1861.5	64.7						
1/2 P-P	1206.8	1456	1213.7	4510.4	3459.4	139.8						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-454.8	-260.2	-324.9	-199.6	-14.8	-16.7	-3803.4	1509.2	-336.2	530.4	25.8	-2.7
2nd	-527.2	-17.6	-736.2	-15.6	-594.4	-9.6	182.3	165.7	245.4	-85.3	-33.2	3.1
3rd	-391.8	169.4	-439.1	165	-467.3	88.5	236.9	96.6	-503.1	-370.9	-58.4	-32.3
4th	141.9	63.2	343.9	61.2	267.4	29.6	-201.9	49.9	2281.1	-802.9	26.9	32.1
5th	-96.9	-105.5	-45.6	-91.2	175.2	-25.2	122.9	100.2	-284.1	-299.4	6.5	-12.7
6th	110	-4.2	20.3	10.1	-1.2	36.8	-11.4	-31	-13.5	45.9	5.4	-6.4
7th	29.7	9.9	-17.5	-50	-164.5	-68.5	16.7	42.9	13.8	-38.8	-2.6	-3.6
8th	-28.5	9.7	-43.5	38.2	-64.2	6.9	-125.9	-79.2	136.8	79.8	-0.5	2.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
15/29												
MEAN	-413	-4067	-326.3	-4720.5	-1686	-843.3						
RMS	403.9	1964.7	407.4	2090.4	1745.1	1374.8						
1/2 P-P	708.2	3134.4	711.5	3438.5	2959.7	2972.3						
HARMONIC												
1st	212	-105.5	-2519.6	189.4	2658.2	-1224	2226.5	-982.4	1114.8	-677.5		
2nd	-10.2	-41.6	-97.8	42.7	180.6	139.5	168	117.8	231.1	20.3		
3rd	-260.9	-421.8	-186.9	252	-173	-81.9	-126.5	-21.4	104.4	202.5		
4th	129.6	28.7	35.9	44	36.9	87.1	251	-59	1185.1	-680.1		
5th	11.3	-33	140.3	12.8	-162	-61	-73.7	-30.8	240.1	153.4		
6th	-44.8	3	21	2.3	-7.4	5.9	-8.7	0.7	-13	-0.5		
7th	5.1	-22.2	-22.3	-4.6	29.9	-38.2	22.8	-34	-3.7	-21.1		
8th	-1.4	-22.2	-63.9	-41.6	-134.3	-79.1	-117.5	-76.7	-51.1	-46.6		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
15/29												
MEAN	-1823.2	-420.4	-198.1	-5918.2	-500	-77.6						
RMS	1518.9	55.3	414	2001.2	51.6	15.6						
1/2 P-P	3007.2	119.1	719.8	3272.1	111.6	29.2						
HARMONIC												
1st	528.7	-535.8	-23.1	24.2	-152.2	1069.7	2589.9	-10	-31	-13.7	10.1	
2nd	240.5	-36.1	-31	-3.3	-12.8	-154.5	-120.4	31	5.8	-7	0.1	
3rd	286.8	280.4	55.9	16	271.6	-110.4	170.9	24.1	-44	-10	-2.8	
4th	1557.6	-1077.2	3.8	20.2	146.6	-49.2	81.6	11.3	21.2	3.5	3.7	
5th	412.6	213.1	-1.6	7.4	2.9	84.2	-133.1	-6.1	-2.4	1.1	-0.6	
6th	-11.4	-2.2	4.9	-6.5	-47.3	10	18.3	-4.9	5.8	1.2	-1.3	
7th	-19.8	19.6	2	2.5	-3	7.4	-8.5	2.5	-1.2	0.1	0.4	
8th	56.9	36.4	-3.7	5.6	-2.9	-120.3	-99.3	-1.6	4.9	-0.2	-0.4	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1061		-4585.7		-986.4		-5260.2		-2171.5		-1022.8	
RMS	445.1		1434.1		428.7		1533.2		1280.3		1174.5	
1/2 P-P	743.2		2444.6		728.8		2716.1		2330.5		2502.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	308.6	-82.7	-950.3	-1739.1	68.9	272.9	-1022.4	1569.2	-816.3	789.3	-561.7	
2nd	-27.8	-63.3	-94.6	-55.3	11.8	57.1	90.4	119.3	78.1	184.5	1.5	
3rd	-267.1	-427.5	73.9	-128.1	-426.7	250.6	-84.1	-79.7	-24.7	89.9	172.6	
4th	136	36.3	-229.4	55	152.3	42.3	69.7	232.3	-55.4	1130.6	-583.1	
5th	59.7	-69.5	-101.4	162.5	75.1	47.7	-110.3	-89.1	-57.4	234.4	220.6	
6th	-54.6	13.3	23.1	7.1	56.9	-9.6	6.2	-2.8	1.4	-7.2	-5.1	
7th	8.1	-16.3	-10.1	15.5	-18.8	-2.5	4.5	4.1	0.6	-10.9	-16	
8th	11.9	-54.1	-130.4	-155.6	11.3	-53	-177.3	-115.1	-164	-54.3	-97.9	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1874.5		-406.3		-828.2		-6433		-481		-81.3	
RMS	1397.6		54.6		430.4		1412.2		48.9		13	
1/2 P-P	2762.7		116.6		739.3		2510.9		105		28.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	368.4	-435.8	-17.9	35.1	-227.5	156	1735.5	-20	-25.1	-11.6	5.5	
2nd	195.5	-34.8	-28.7	-6.3	-41.2	-58.3	-70.9	29.7	7.7	-5.9	0.4	
3rd	227.8	243	55	10.4	265.5	428.2	113.6	19.9	-44.2	-10.4	-2.2	
4th	1499.1	-932.7	-2.7	12.5	151.9	39	66.1	6	13.5	2.9	1.6	
5th	426.6	324	2.2	5.2	-36.2	57.2	-155.4	-5	4.3	-0.8	-0.3	
6th	-5.7	-10.1	7.2	-6.5	-54.8	6.2	9.6	-7.1	5.8	1.5	-1	
7th	-8.7	-3.5	0.3	2	-2.8	20.6	22.8	1.3	1.6	-0.3	0.5	
8th	55.6	68.6	-4.7	7.6	4.9	-48.2	-182.7	-3.9	7	-0.4	-0.2	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
15/28						
MEAN	-917.4	-236.4	181.5	442.9	388.3	96.7
RMS	429.4	253.1	121.6	202.3	246.8	436.1
1/2 P-P	741	473.4	256.9	489.9	572.8	786.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-250.7	-220.9	-174	-152.1	-109.1	-98.8
2nd	13	43	2.4	26.3	-20.5	7.1
3rd	418.2	-215	231	-111.5	4.7	-17.8
4th	137.3	44.6	75.9	22.8	-21.5	-24.7
5th	-48.8	-69.9	-6.8	3.1	5.4	-3.7
6th	54.7	15	22.1	-39.7	-3.1	-5.9
7th						
8th						
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
15/28						
MEAN	-116.6	-333	-419.1	-6946.9	-2875.4	-415.1
RMS	531.7	588.2	495.1	1442.7	1518.7	58.5
1/2 P-P	1018.7	1189.1	1050.6	2468.3	2886.5	122.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-303	-205.8	-228.9	-164.3	-6.9	-422.7
2nd	-374.3	4.7	-497.4	13.7	189.3	69.6
3rd	-411.8	193.1	-415.5	267.8	-8.8	46.6
4th	131.7	59.6	-201.8	-8.6	-3	29.5
5th	-57.6	112.4	35.3	-41.2	29.5	-86.2
6th						
7th						
8th						

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-2414.9	-5536.8	-2365.1	-6228.5	-3048.9	-1360.3						
RMS	357.5	371.7	340.1	388.8	325.1	607.6						
1/2 P-P	688.8	802.8	679.3	902.4	803.2	1139.1						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	265.3	-101.2	-328.5	-285	64.9	224	310.5	-340.7	267.3	-269.5	120.9	-220.8
2nd	-145.8	-12.7	30	-28.6	140.3	4	-51.8	64.7	-25.4	49	70.9	-0.9
3rd	-185.1	-311.8	48	-30.1	-320.3	173	-6.3	-52.3	-7.1	-11.5	58.2	103.4
4th	99	13.4	-137.6	49	104.1	19	6.1	45	136.5	-27.6	695.7	-331.4
5th	58	-26.1	-98.4	72.3	32.7	60.7	-99.2	-125	-48.7	-67.2	96.3	188.1
6th	-38.7	10.6	18	13.3	42.9	-8.1	-2.8	4.6	2.1	3.1	3.1	-0.8
7th	7.8	-16.3	-4.3	-24.3	-13.2	-5.2	0.7	-29.2	0	-26.9	-4.4	-21.8
8th	24.3	-68.5	-56.3	-152.6	28.8	-70.3	-60	-167.2	-45.8	-146	-17	-86.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1974.5	-368.3	-2154.8	-7381	-430.7	-81.6						
RMS	825	52	357.8	301.5	42.8	11.2						
1/2 P-P	1570.6	109.7	672.1	698.9	90.1	26.6						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	47.7	-175.5	-16.6	49.5	-187.6	189.4	284.5	146.7	-34.2	-20.9	-11.7	2.4
2nd	103.1	-25	-30.5	-7.1	-161.1	-7.6	46	-36.2	27.8	8.9	-4.3	-1.1
3rd	106.2	132.4	36	5.3	176.2	315.7	-60.6	18.3	10.1	-27.6	-8.2	-0.3
4th	920.1	-539	-11.5	2.1	110.1	19.4	-35	39.6	-6.4	-0.3	1.2	-1.4
5th	197.6	302.1	4.2	-2.3	-57.7	25.9	127.3	-57.6	0.1	5.7	-2.2	0.4
6th	6.1	-6	6.1	-4.3	-48	9.4	18.4	3.4	-6.5	4.2	1.2	-0.7
7th	0.4	15.6	-2.9	2.4	-7.8	17.2	-10.8	-16.3	1.3	3.3	0	0.8
8th	23.5	72.9	-4.4	7.2	11	-89.9	-41	-170.9	-3.6	9.1	-0.4	0.5

RUN/POINT 15/27	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2256.9	-1069.4	-1069.4	-161.9	291	267.7	267.7	267.7	267.7	267.7	267.7	267.7
RMS	364.8	217.4	217.4	117.5	169.4	193.1	193.1	193.1	193.1	193.1	193.1	193.1
1/2 P-P	655.4	409.5	409.5	269.2	456.6	494.3	494.3	494.3	494.3	494.3	494.3	494.3
HARMONIC												
1st	-269.7	-181.3	-176.9	-128	-85.2	-85.9	-78.2	-82.5	-88	-82.5	-120.1	-132.7
2nd	142.7	0.8	80.3	3.3	0.5	40.3	2.6	4	-56.1	4	-174.2	-14.4
3rd	313.8	-145.6	173.8	-74.7	-11.7	-108.7	37.9	61.9	-154.3	61.9	-328.7	106.7
4th	96.6	23.6	51.9	13.3	-3	-40	-13.8	-13.8	-58.9	-13.8	-63.8	-16.5
5th	-4.6	-68	-3.2	-25.4	26.8	-11.3	75.5	93	-9.1	93	7	-6.9
6th	42.3	-6.2	16.3	-0.7	2.4	-48.8	6.1	9.9	-55.2	9.9	38	4.8
7th	15.6	3	6.7	-0.7	-8.4	-16.3	-14.7	-11.8	-20.4	-11.8	14.4	18
8th	33.7	-44.5	0.9	-7	42.4	-81.4	75.8	75.2	-71.1	75.2	111.7	-63.5
RUN/POINT												
15/27	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
MEAN	-237.8	-388	-388	-307.5	-7989	-2912.9	-373.6	-373.6	-373.6	-373.6	-373.6	-373.6
RMS	379.2	414.7	414.7	358.6	321.9	914.5	47.3	47.3	47.3	47.3	47.3	47.3
1/2 P-P	774.7	849.5	849.5	870.5	664.9	1742.9	99.5	99.5	99.5	99.5	99.5	99.5
HARMONIC												
1st	-97.6	-147	-63.9	-124.6	-36.9	-208.1	263.9	120.9	-8.6	120.9	14.9	-35.9
2nd	-282.6	30.1	-310.4	43.5	26	-41.8	48.9	-36	118.7	-36	-30.9	-6.9
3rd	-318.9	137.4	-306.8	139.6	106.2	19	52.2	-144.3	-163.4	-144.3	-39.5	-10.6
4th	76.4	29.5	138	40	33.4	-107.9	26.5	-384.9	1131.4	-384.9	0.8	-3.2
5th	50.1	-173.9	94.7	-210.8	-141.7	52.5	140.8	-317.6	-82.9	-317.6	-4.5	-2.2
6th	80.9	-9.9	47.6	-6.5	0.7	-22.1	-3.6	2.3	24.6	2.3	7	-4.7
7th	20.9	-6	-26.7	-21.5	-25	-15.3	-5.2	4.9	19.9	4.9	3.5	-2.8
8th	-37.9	25.5	-119.2	111.8	112.6	-41	-176.4	169.1	53.8	169.1	-3.9	5.4

RUN/POINT 15/26	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3650.9	-6291.4	-3610.4	-6974.5	-3717.1	-1617.4						
RMS	310.3	447	315.7	475.6	388.3	269.8						
1/2 P-P	511.4	879.4	552.9	935.2	716.8	576.7						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	52	-33	136.2	546.2	-17.4	17.1	-562.2	131.2	-471.5	105.4	-245.6	29.5
2nd	-416.8	12.5	242.8	-1.1	428	-17.6	-305.4	30	-223.7	13.7	-67.6	-7.8
3rd	-59.7	-83.4	2.2	-13	-85.7	59.8	-3.3	-8	0.7	3.8	37.5	41.9
4th	50.7	-3.4	-34.2	22.9	51	1.9	-4.5	22.7	41.2	-6.1	232.6	-115.9
5th	-14.5	-12	8.7	10.9	15.6	-11.8	-31.9	13.6	-18.8	4.7	37	-14.1
6th	-12.9	4.4	14.1	2.7	9.9	-8.4	1.4	-7.3	4.4	-6.7	-6	-2.9
7th	-0.6	-13.6	30	6.2	-13	3.6	27.7	2.7	20.1	0.3	-5.6	-8.9
8th	-17.8	-11.2	-37.2	-10.2	-16.9	-14.4	-33.8	-14.6	-30.1	-12.1	-11.9	-7.1
RUN/POINT 15/26	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2062.7	-325.5	-3361.8	-8120.9	-377.8	-76.2						
RMS	292.9	49.8	328.2	537.5	41.4	10.1						
1/2 P-P	588.8	89.6	519.8	1016.5	78.3	22.7						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-122.3	1	-16.4	55.9	4.2	108.4	-143.6	-673.9	-44.1	-20.7	-12.3	3.6
2nd	11.9	-14.4	-33	-16.2	-430.9	19.7	284.4	-2.2	26.1	15.2	-1.1	-2.3
3rd	52.5	36.9	4.5	-5.4	60.9	97	-3.3	5.4	-1.9	-4	-4.1	1.3
4th	311.5	-194.9	-8.7	1.4	48.8	3.6	-23.2	11.8	-5.9	-0.6	-0.3	-0.8
5th	61.8	-31.5	-5	-1.8	8.6	14.8	-7.4	-19	2.2	-3.8	-0.9	-0.2
6th	0.8	2.7	3.4	-0.6	-15.5	10.3	-3.5	-14.8	-4	0.1	0.6	-0.1
7th	-14.5	4.2	0	0.2	2.1	14.7	16.3	11.7	0.1	0.4	-0.8	-0.2
8th	17.1	8.6	0.3	1.6	-21.9	-14.6	-34.9	-15.4	0.9	1.7	0.6	-0.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
15/26		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3474.3	-1823.2		-469.7		158.9		165.3		-183.5			
RMS	343.5	202.5		78		82.8		97.6		223.2			
1/2 P-P	582	347.4		159		236.8		256.6		423.7			
HARMONIC		SINE		SINE		SINE		SINE		SINE		SINE	
1st	-198.1	19.2		-2.7		-72.5		-50.3		-43.5		-51.4	
2nd	424.9	-24.5		-7		61.8		-50.2		6.2		8.8	
3rd	95.7	-50.4		-24.4		0.4		-36		21.7		30.4	
4th	45.3	2.5		2.5		-2		-24.8		3.1		4.7	
5th	-12.8	3.7		1.8		4.7		13.1		0.8		0	
6th	17.9	-4.2		-0.8		-4.2		-16		7.6		8.7	
7th	14.5	-3.5		-1.2		-6.6		-19.1		-0.3		2.9	
8th	-7.4	-12.2		-1.8		7.6		12		23.9		21.2	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
15/26		Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-316.7	-406.6		-197.1		-8808.4		-2983.9		-328			
RMS	289.4	282.1		179.3		511.6		307.9		42.4			
1/2 P-P	488.1	541.1		423.3		982.8		709.5		77			
HARMONIC		SINE		SINE		SINE		SINE		SINE		SINE	
1st	179.5	-86.5		-72.1		110.3		612.4		-218.1		-4.4	
2nd	-302.9	29.3		41.6		-88.6		-277.5		14.1		-28	
3rd	-164.5	56.9		57.4		-152.8		8.4		6.3		-36.3	
4th	17.7	-9.5		-6.5		21.8		-31		2		-106	
5th	-13.2	-2.5		-5.4		6.8		22.8		-4.3		2.4	
6th	32.7	-7.6		-4.8		33.8		-12.9		4.1		-10.6	
7th	5.6	-2.5		0.3		-27.5		21.9		22.1		-26.2	
8th	6.6	7.7		34.4		-5.9		-37.3		-14.5		11.1	
												0	

RUN/POINT 15/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-278.7		-4265.6		-180.7		-4592.2		-1515.7		-407.8	
RMS	488.1		2533.8		481		2655.6		2209.9		1650.4	
1/2 P-P	921.5		3983.2		911.6		4241.5		3672.4		3407.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	376.3	143.8	-1462.8	-3233.8	-140.4	343.8	3354	-1625.9	2803.9	-1300.7	1438.7	-859.7
2nd	11.8	-51.9	-133.1	-159.9	-43.4	65.1	173.7	192.5	162	158	233.4	37.8
3rd	-312	-420.2	66.9	-209.9	-426.6	299.1	-203	-59.1	-152.4	6.3	85.8	240.5
4th	144.9	20.1	-244	71.6	172.5	34.3	64.9	84.9	291.8	-84.9	1288.8	-849.4
5th	39.2	-89.6	-107.6	174.8	94.4	22.4	-155	-103.8	-60.8	-51.9	276.4	185.9
6th	-55.3	15.4	22.3	1.4	62	-8.6	-21.4	0.2	-15.9	-0.9	-7.3	0.6
7th	10.1	-15.9	-20.9	13.3	-20	-8.3	-0.5	11.1	0	4.7	-5.4	-21
8th	-2.5	-42.2	-125.8	-86.3	1	-40.8	-142.4	-107	-120.5	-103.9	-51.4	-64.8
RUN/POINT 15/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1551.7		-419.8		-55.9		-5881.9		-499.5		-78	
RMS	1737.9		54.6		451.6		2556		53.1		12.8	
1/2 P-P	3585.5		123.1		783.8		4079.8		111.9		27.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	722.8	-655.7	-26.1	20.1	-293.2	-73.1	1421.5	3295.1	-5.9	-33.6	-7.4	8.2
2nd	243.9	-34.9	-26	-1.3	-6.6	-58.8	-132.8	-165.3	31.4	5.2	-7.5	1.4
3rd	279.9	310.9	58.6	5.7	307.4	426.3	-76.8	199.6	22.1	-45.6	-10.2	-2.1
4th	1676.3	-1315.7	8.2	20.1	163.2	23.8	-48.8	72.9	14.8	20.6	3.8	3.3
5th	459.7	279.9	2	6.1	-15.7	70.5	113.7	-153.2	-6.8	3.1	0.8	-0.8
6th	12.7	-4.1	6.2	-7.7	-49	6.4	22.3	19	-5.7	7.8	1.2	-1.5
7th	-9	-16.7	1.3	1.1	-3.6	20.4	-11.2	9	1.6	-0.9	-0.2	0
8th	62.6	44.2	-4.4	7	-4.4	-24	-140.2	-113.1	-1.8	6.3	-0.6	-0.3

RUN/POINT 15/ 5	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-134.4	-295.7	-40.4	-195.2	-47.5	-125.4	-105	-110.4	-127.6	-116	-324.3	-205
RMS	420.4	43.2	-29.6	26.2	-33.9	8.2	-44.4	1.3	-47	1.2	-171.6	-25
1/2 P-P	705.6	-256	219.6	-133.7	-5.8	-18.3	-164.8	72	-228.3	114.5	-445.2	192.4
		153	30.2	14.6	7.6	-10.7	-63.5	-27.9	-92.9	-28	-125.1	-17.3
HARMONIC		-65	-43.4	-14.7	12.4	25.5	51.7	65.5	68.7	77.5	6.5	-22.7
	1st	51.3	-6.6	-1.5	-34.5	0.5	-77.4	3.6	-84.3	9.8	67.6	11.6
	2nd	14.9	6.5	-0.3	-20.8	-12.2	-37.6	-22.7	-39.3	-17.7	29.8	35.6
	8th	31.9	-30	-0.9	-47.3	34.5	-79.3	57.3	-69.4	56.5	106.6	-48.6

RUN/POINT 15/ 5	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-55.7	-212.9	-271.3	-156.4	-15.7	-12.7	-6445	1462.3	-2757.2	461.4	-425.1	-9.7
RMS	594.9	14	-645.6	24.7	-533.7	24.3	2591.5	173.6	1871.3	-340.4	61.8	2
1/2 P-P	1127.3	221.3	-444	209.8	-445.9	136.7	4089.4	70.1	3516.7	-99.4	134.5	-19
		44.4	336.3	41.8	258.9	22.2		79		-315.1		21.5
HARMONIC		-137.8	-40.2	-148.1	167.1	-95.6		122.3		-1021.4		-10.4
	1st	114.6	-14.8	4	14.8	29.2		-23.3		-346.5		-9.6
	2nd	37.2	-4.5	-42.6	-196.7	-38.1		12.3		36.6		-1.8
	8th	-46.1	26.6	88.4	-151.8	72.8		-113.6		153.2		5.1

RUN/POINT 14/ 6 Flap Bending, in-lb Blade 2, $r/R=0.144$ Chord Bending, in-lb Blade 2, $r/R=0.144$ Flap Bending, in-lb Blade 3, $r/R=0.144$ Chord Bending, in-lb Blade 3, $r/R=0.144$ Chord Bending, in-lb Blade 3, $r/R=0.174$ Chord Bending, in-lb Blade 3, $r/R=0.325$

MEAN -494.6 -4119.8 -361.8 -4693.4 -1654.5 -612.3
RMS 521.5 2235.2 509.6 2377.5 1978.8 1550.6
1/2 P-P 900.2 3591.6 901 3877.7 3311.3 3282.6

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	466.8	2.2	-1580.7	-2697.8	16.9	449.6	2824.1	-1767.3	2370.9	-1420.5
2nd	0.8	-65.2	-145.1	-141.3	-25.4	71.6	179.5	181.8	163.3	154.9
3rd	-301.4	-433.3	72.2	-182.7	-428.6	282.2	-180.1	-62.9	-135.3	0.1
4th	148.8	25.7	-220.2	75.2	173.3	40.2	31.7	106.1	268.5	-66.7
5th	46.7	-110.2	-106.2	180.2	97.1	23.8	-181.7	-97.3	-79.2	-54.3
6th	-54.4	11.3	21.9	15.6	55.9	-7.6	-11.2	0.4	-11.4	-1.3
7th	15.9	-21.2	10	-19.9	-23.7	-6	23.9	-33.4	23.5	-28.1
8th	-1.5	-35.8	-103.1	-72.4	14	-36.2	-125.3	-90.6	-109.1	-91

RUN/POINT 14/ 6 Chord Bending, in-lb Blade 3, $r/R=0.450$ Torsion, in-lb Blade 3, $r/R=0.400$ Flap Bending, in-lb Blade 4, $r/R=0.144$ Chord Bending, in-lb Blade 4, $r/R=0.144$ Torsion, in-lb Blade 4, $r/R=0.400$ Pitch Link, lb Blade 1

MEAN -1684.6 -411.2 -273 -5694 -494.3 -82.5
RMS 1700.5 53.8 479.7 2219.6 53.4 11.5
1/2 P-P 3454.9 122.2 868.6 3643.4 112.8 24.6

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	581.7	-696.5	-24.7	27.6	-378.6	94.9	1540.5	2704.4	-12	-29.9
2nd	235.2	-13.5	-25.3	-2.3	-23.6	-58.4	-120.4	-144.4	32.4	3.6
3rd	274.9	300.6	56.8	4.6	284.9	429.7	-84.3	173.3	22.7	-48.1
4th	1684.1	-1248.1	4.4	15.9	154.8	32.5	-81.4	71.8	14.2	18.3
5th	486.2	289.2	2.7	4.5	-14.2	90.1	110.1	-160.2	-5.6	4.9
6th	-1.4	3.4	6.9	-7.4	-50.3	5.5	-1.7	9.4	-6	7.3
7th	-20	12.2	0.8	2.6	-8.6	23.3	10	-17.9	2.2	0.6
8th	53.5	44.4	-5.4	6	12.6	-25.4	-112.8	-102.5	-3	6.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
MEAN	-375.2	101.8	327.8	514	445.1	176.4						
RMS	483.3	286.3	140.2	218.1	265.7	472						
1/2 P-P	871.1	552.3	276.9	513.8	596.2	871.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-164.8	-400.6	-125.7	-260.6	-81.5	-153.3	-113.2	-120.7	-128.7	-123.7	-333	-182.2
	-26.3	59.6	-21.7	35.5	-30.8	10.3	-43.6	-0.3	-46.1	-3	-157.5	-4
	414.2	-250	227.6	-130.6	-1.6	-19.6	-163	67.3	-227.1	106.9	-393.2	301.3
	154.5	35.4	83.6	17.2	5.2	-9.4	-65.1	-30.1	-95.1	-31.3	-119.9	22.8
	-84.3	-47.2	-36.1	-17.1	18	25.9	71.4	68	93.3	79.8	-0.6	-25.5
	59.4	-5	19.5	-0.4	-32.4	-0.1	-77.2	0.8	-86.9	6.7	66.6	-25.3
	21.6	7.6	3.7	-2.1	-19.9	-18.5	-38.2	-31.3	-40.9	-26.7	53.4	24.1
	33.7	-26.7	-0.3	-2.1	-48.1	29.5	-81.8	49.1	-71.1	49.2	64.2	-109.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN	-69.5	-310.1	-467.4	-6359.9	-2854.4	-423						
RMS	589.6	663.9	561.2	2304.5	1673.9	59.6						
1/2 P-P	1120.2	1351.6	1206.9	3694.1	3293.5	132.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-347.3	-226.9	-260.2	-172.1	-10.9	-22.4	-2789.7	1626.2	-255.5	491.8	24.4	-17.4
	-454.8	2.1	-604.3	8.2	-499.9	10.3	165.4	136.7	250.7	-96.8	-31.2	-0.8
	-419.1	214.2	-451.5	204.2	-443.7	128.7	184.4	75.1	-397.7	-302.7	-61.8	-18.5
	164.2	56.3	327.9	67.5	246.8	46	-150.8	33.6	2014.7	-776.4	16.8	20.5
	-149.2	-145.1	-93.4	-149.8	124.2	-85.4	162.9	129.3	-364.5	-356.7	-5.9	-7
	118.4	-5.7	37.6	6.1	26.1	27.8	-9.8	-9.7	-19.7	21.8	9.7	-7.9
	41	-2.2	-52.7	-51.3	-196	-60.9	-1.5	-2	21.4	2.5	0.2	-3
	-47.9	22.9	-109	76.8	-159.4	56	-102.5	-96.2	110	80	-5	5.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-573.2	-4385.3	-495.3	-5029.6	-1964.8	-729.1						
RMS	488.3	1968.7	479.3	2128.7	1779.5	1812						
1/2 P-P	916.2	3094.8	912.9	3208.4	2835	3596.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-10.9	140.1	-2720.4	-23.3	2967.4	-233.4	2456.4	-151.8	1260.2	-143.9		
2nd	-159.3	-94.7	-45.9	90.6	-44.4	62.8	4.2	46.1	207.3	-29.6		
3rd	-303.8	-474.5	-184.4	285	-170.4	-72.1	-122.3	-7.9	130.5	220.4		
4th	208.1	-14.2	179.4	-13.2	47	77.6	388.8	-128	1892.6	-1039.1		
5th	-167.1	-118.7	147.8	-153.6	-148.5	157.5	-65	76.7	323.9	-190.3		
6th	-65.4	41.5	-3.3	-33.3	-27.1	40.2	-32.8	17.4	-25.6	-53.7		
7th	-13.2	-69.5	-69.9	15.9	-20.4	-100.9	-6.8	-81.3	-8.9	-25.9		
8th	-53.8	-62.5	-60.2	-65.7	-262.9	-63.6	-229.9	-65	-120	-1.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1635.5	-407.4	-444	-6185.1	2068.3	486.3						
RMS	2253.8	61.1	496.8	2068.3	3084	59.6						
1/2 P-P	4230.7	135	957.4	3084		131.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	693.3	-172.5	18.6	-94.4	161.7	2885.7	-8.1	-10.1	-10.9	20.1		
2nd	300.1	-69.9	-16.7	-90.1	105.9	-38.1	31.4	16.4	-5.1	-1.9		
3rd	353.7	317.8	5.7	490.6	-102.3	169.1	11.7	-66.5	-12.7	0.1		
4th	2503	-1629.1	-3.7	-8.2	-77.8	137.9	0.1	-3.2	3.6	-2.9		
5th	479.6	-354.2	-7.2	95.7	-92.5	-161.1	9.6	-8.2	2.3	3		
6th	-22	-86.3	-10	32.3	11	13.1	-5.3	8.3	1.1	-1.2		
7th	28	54.4	8.4	65.8	-28.3	-1.3	7.8	4.3	-0.7	-1.7		
8th	114.5	53.9	12.8	-77.5	-250.3	-93.3	4.9	15.9	-1.2	-1.4		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-557		-18.7		258.1		389.1		393.7		80.2	
RMS	457.7		249.4		141.3		284.1		331.5		518.6	
1/2 P-P	846.3		436.4		319.8		680.4		737.7		1022.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-55.3	61.2	-66.8	20.5	-70.3	-30.6	-125.4	-70.5	-141	-82.3	-229.8	-168.1
2nd	146.1	82.9	78.6	50.8	-2	13.1	-61	-6.1	-79.7	-14.1	-273.8	-85
3rd	484.9	-260.1	267.5	-135.2	2.1	-21.7	-192.3	71.2	-257.3	114.8	-527.9	215.8
4th	197.7	-5.8	111.3	-6.6	12.6	-22.2	-80.9	-25.6	-124	-19.2	-127	-6.7
5th	-106.2	131.9	-42.3	49.1	47.6	-45.4	129.8	-127.8	150.6	-154.5	-36.1	-10
6th	61	-27.7	20.1	-8.6	-36.2	9.2	-87.3	27.2	-97.3	37.9	74.1	-3.7
7th	62.8	-20.3	11	-14.7	-62	-15.8	-121.9	-13.5	-125.2	-1.8	138.4	40.7
8th	-12.5	-50.8	-8.2	-2.4	-6.5	66.1	-1.9	109.5	6.3	101.9	23.5	-123.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-186.9		-424.4		-508.2		-6693.6		-2685.1		-420.8	
RMS	687.4		733.5		629.1		2024.2		2470.2		67.3	
1/2 P-P	1451.9		1661.4		1611.2		3086		4622.9		139.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-262.6	-189.2	-213.4	-150.5	-28.9	-33.4	-2798.9	331.6	-342	188.2	6.1	-6.2
2nd	-449.2	-45.1	-492.1	-19	-353.6	7.7	-48.7	38.2	321.6	-90.5	-35.4	-15.3
3rd	-609.3	266.8	-649	261.2	-533	178	173.5	93	-472.3	-316.9	-77.8	-15.3
4th	149.5	59.2	229.4	77.8	104.5	67.7	-236.5	143.2	3054.1	-1402.2	11.9	-5.2
5th	-209.7	276.5	-119.5	325.6	60.1	234.5	146.7	-126.6	-390.6	225.4	0.4	11.8
6th	125.5	-47.8	125	-46.5	182.6	-30	-11.1	-4.5	-47.5	2.2	7.9	-13.6
7th	45.6	-18.3	-177.2	-4	-290.3	-0.6	41.5	25	-39.6	-23.5	1.4	-7.9
8th	7.8	35.7	-15.3	165.5	-139.5	199.2	-248.3	-99.6	259.8	72.7	-0.1	13.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3282.3	-1198.5	3396	-1896.5	891.5	268.8						
RMS	634	6659.9	641.6	6041.4	5078.4	3617.6						
1/2 P-P	1305	10034.2	1364.1	9212	8025.9	7525.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	171.8	-249.8	-8444.6	256.1	61.3	7109.5	-4621.5	6001.2	-3802.6	2956.9	-2428.3	
2nd	123.9	-28.3	-358.2	-236.1	-12.1	608.9	452.3	534.2	373.6	566.9	118.6	
3rd	-441.9	-584.5	-658.8	-612.3	412.3	-547.9	2.8	-379.4	92.8	369.3	551.7	
4th	274.4	-6.1	297.8	305.5	10.3	156.9	177.5	609.2	-205.7	2576.4	-1917.3	
5th	-188.9	-166.6	236.4	168.7	-124.1	-132.1	48.1	-18.2	16.9	481.7	-87.5	
6th	-74	33.6	-42.8	73.1	-28.9	-34.3	40.1	-36.5	19.1	-34.2	-31.3	
7th	-2.3	-53.5	-44.3	-42.8	-7.4	-78.1	-93.8	-60.4	-86.5	-47.2	-53.7	
8th	-74.4	-2	84.5	-29.8	-30.8	-254.2	101	-232.1	74.7	-109.2	33.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1439.5	-424.7	3379.9	-3047.5	6618.9	113	-535.3	-30.4				
RMS	3716.4	110.9	634.2	6618.9	10023.4	213.3		48.4				
1/2 P-P	7590.5	193.4	1382.6	10023.4				98.5				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1398	-1819.8	-47.4	-25	216.9	3969.4	8417.2	52.3	-63.4	-48.6	38.4	
2nd	592.9	-39.3	35.1	62.5	-29.6	-503.3	-447.9	-32.4	-46	2.2	12.6	
3rd	905.1	723	76	-54.6	599	-212.4	539.9	-45.4	-58.9	-9.1	6.2	
4th	3335	-2963.8	58.4	47.7	16.8	-98.8	223.1	70.5	52.1	17.5	9.3	
5th	702.7	-202.1	-33.3	15.5	125.3	-33	-191.3	-15.5	-36.1	10	-2	
6th	-9.3	-32.5	-6	-11.2	25.7	75.2	-41.8	1.9	10.4	-2	-2.8	
7th	6.6	20.8	11.6	10.1	55	-42.9	16	11.9	-7.7	-0.6	-4.1	
8th	124.7	-30.1	1.9	4.1	12.8	-235.5	37.1	7.5	0.9	-2.2	0.6	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1770.9	-2732.4	1858.6	-3470.9	-514.1	-244.2						
RMS	676.7	4488.3	655.6	4444.1	3741.6	3040.8						
1/2 P-P	1311.2	6870	1252.6	7086.6		6366.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	242.1	-349.5	380.6	176.3	5478.6	-2951.7	4621.5	-2404.7	2281.4	-1563		
2nd	17.7	-94.3	-84.5	62.5	374.1	329	346.9	272.3	441.5	83.4		
3rd	-445.4	-579.6	124	408.8	-482.1	-97.3	-338.9	-15.9	274.5	363.1		
4th	262.8	-5.4	308	-1.8	135.7	117.9	591.5	-229	2597.7	-1783		
5th	-176	-264.9	211.8	-155	-254.4	100.1	-85.4	36.2	639.7	-156.1		
6th	-89	33.6	90.5	-47.9	-39.5	44	-35.9	17	-33.2	-50.9		
7th	2.7	-71.1	-65.2	1.2	-66.4	-29.5	-56.2	-31.1	-40.3	-31.6		
8th	-45.5	-60.5	-32.4	-63.2	-368.8	-78.2	-324.8	-86.6	-163	-45.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1618.1	-443.2	1908.4	-4560.8	-539.7	-55.5						
RMS	3443.3	79.7	650.7	4433.1	82	33.3						
1/2 P-P	6700.9	168.8	1221.5	6947.2	161.8	64.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1098.5	-1194.7	-23.6	-13.5	2523.1	5686.8	31.7	-39.1	-35.5	21.6		
2nd	487.2	-44.3	-6	17.5	-245	-249.5	11.1	-8.1	-4.6	3.9		
3rd	716.5	497.2	78.2	-25.6	-155.5	453	-0.8	-69.8	-12.3	0.1		
4th	3383.1	-2740.5	43.7	37.5	-63.4	163.2	54.9	40.2	11.7	8.8		
5th	975.6	-325.6	-24.7	10.5	-50.6	-226.3	-0.6	-20.4	7.9	-1.2		
6th	-25	-47.2	3.8	-17.4	56.8	-41	-4.6	19	1.4	-3.4		
7th	22.2	12.7	9.1	10	-52.8	82	10.9	-4.6	-0.2	-1.9		
8th	167.4	45.7	-2.2	13.1	-339.8	-91.1	2.7	13.2	-3.8	-1.3		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	1860.7	1489	892.7	772.9	653.8	428						
RMS	671.2	394.9	199.5	368.8	442.6	656						
1/2 P-P	1298.7	787.2	400.3	822.8	953.9	1262.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
1st	-505.2	-200.5	-353.2	-135.5	-111.2	-185.6	-121.9	-200.6	-135.2	-453.4	-239.7	-239.7
2nd	-75.9	76.4	-53	45.1	12.8	-52.2	-4.2	-51.7	-9.9	-290.3	-84.9	-84.9
3rd	546.5	-361.5	302.6	-189.2	-21.1	-216.6	108	-296	167.1	-583	271.8	271.8
4th	273.4	-21.5	154	-17.2	-29	-108.4	-35.5	-161.1	-28.2	-217.1	17.1	17.1
5th	-216	149.2	-81.2	56.7	44.3	271.5	-135.3	321.4	-172.6	-55.4	-42.6	-42.6
6th	88.3	-41.2	29.8	-12.9	14.2	-116.7	39.6	-126.8	51.8	116.6	-13.1	-13.1
7th	64.4	-1.3	13.8	-11.9	-38.5	-110.6	-55.4	-117.2	-43.3	96	99.2	99.2
8th	-44.4	-53.9	-18.5	-0.1	80.7	46	132.7	58.1	118.6	-16	-169.9	-169.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	10.6	-357.1	-676.7	-4909.5	-2729.4	-454.5						
RMS	998.3	1117.8	869	4538.6	3691.9	91.1						
1/2 P-P	1819.6	2104	1862	7066.2	6965.4	174.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
1st	-391.1	-285.8	-261.5	-185.3	-27.5	-5636.4	2926.8	-505.4	892.5	22.3	22.1	22.1
2nd	-776.5	-39	-912.6	-65	-20.4	359.9	226.9	561	-149.1	-16.5	14.7	14.7
3rd	-709	331.9	-900.7	312.9	168.4	497.4	152.3	-947.2	-551.5	-90.2	2	2
4th	269.2	-11.9	488.8	-1.1	4.9	-340.1	107	4435.3	-2006.8	59	46.9	46.9
5th	-547.5	347.6	-432.4	386.3	282.5	282.3	-97.3	-857.8	141.1	17.7	2.6	2.6
6th	163.3	-36.2	83.1	21.8	40.9	-74.1	39.2	-8.1	2.4	9.6	-19.5	-19.5
7th	68.8	-47.3	-151	-69.1	-54.1	39.1	103.2	-3.5	-89.7	-4.3	-14	-14
8th	7.8	66.8	76.2	161.9	178.5	-357.7	-108.8	394.9	69.1	-0.3	10.9	10.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
17/9												
MEAN	325.2		-4188.7		418.5		-4625.3		-1541.6		-531.5	
RMS	562.2		2872.1		557.4		2838.7		2387.8		2341.7	
1/2 P-P	1046.5		4352.1		1055.1		4467.1		4039.7		4702	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	212.4	-102.4	-1198.2	-3821.1	190.1	152.6	3766.5	-1267.4	3154.2	-1004.5	1583.7	-696.2
2nd	-106.6	-146.4	-74.9	-108.8	78.8	124	63.6	186.2	93	157.6	290.2	61.7
3rd	-337	-530.2	122.2	-296.4	-563.3	296.5	-272.8	-108.8	-194.2	-27	188.9	310
4th	246.1	7.7	-352.4	237.3	259.6	24.3	76.7	154	515.5	-97.7	2457.3	-1189.4
5th	-162.4	-204.2	75.6	197.2	177.8	-141.9	-203.3	80.9	-72.8	31.1	493.3	-109.9
6th	-68.5	32	5.3	27.4	75.6	-28.6	20.6	-3.4	9.6	-18.1	-47.4	-60.1
7th	16.9	-71	52.9	-27	-66	1.2	-5.4	-55.5	2.1	-48.3	2.1	-28.2
8th	-53.5	-68.5	-273.2	-115.2	-11.5	-49.6	-283.5	-106.3	-247.3	-101.2	-124.7	-40.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
17/9												
MEAN	-1644.3		-436.1		514.7		-5904.9		-520.6		-73	
RMS	2885.1		63.4		553		2826.9		64.3		21.1	
1/2 P-P	5343.3		127		947.2		4404.5		126.1		40.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	816.9	-562.1	-15.1	4.7	-75	174.4	1008.5	3832.9	7.9	-20.5	-20.4	13
2nd	384.2	-12.6	-31.7	-14.3	-91.1	-134.6	-25.5	-92.3	30	14	-6.6	-0.8
3rd	489.5	442.3	76	3.5	311.7	560.8	-139.1	260.2	18.3	-69.9	-12.8	-2.1
4th	3269.7	-1925.6	7.3	3.9	256.3	24.4	-122	116.2	19.5	11	6.3	1.7
5th	757.5	-235.4	-8.6	-1.8	136.7	175.5	-53.2	-191.4	7.4	-8.1	3.9	0.2
6th	-79.1	-44.5	6.2	-12.6	-75.6	31.2	1.1	-22.5	-9.4	13.1	1.8	-2
7th	20.7	32.2	0.8	8.7	-13.7	73.4	-41	56.3	9.6	2.2	0	-0.6
8th	122.1	76.2	-3.7	11.8	-49.9	-68.2	-251.3	-123.7	-0.9	12.9	-2.7	-1.5

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
17/ 9		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN		443.5		603.9		524.3		590.8		499.2	
RMS		555.9		318.8		185.7		343.5		403.7	
1/2 P-P		1055.8		628.2		452.3		810.8		837.4	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-312.3	-149.5	-228.2	-109.9	-134.6	-91.6	-158.4	-102.9	-172	-113
2nd		60.1	126.6	25.5	75.9	-22.3	18.1	-59.4	-15.2	-70.9	-26
3rd		542.1	-268.7	294.9	-137.7	-7.8	-19.5	-221.4	77.3	-303.3	124.3
4th		231.5	7.1	128.2	-1.8	11.2	-27.2	-100.2	-45.2	-149	-42.5
5th		-185.3	93.7	-67.5	31.2	89.9	-35.2	232.4	-92.2	273.6	-113.8
6th		69.7	-13.5	19.6	-1.1	-48.4	7.9	-107.4	18.1	-117.7	28.2
7th		63.2	1.4	10.1	-12.9	-63.6	-44.8	-123.2	-64.8	-129.8	-49.8
8th		-30.7	-60	-13.7	-2.8	5.9	81.1	24.8	138.4	35	126.8
Torsion, in-lb											
Blade 1, $r/R=0.400$											
MEAN		-127.2		-414.3		-591.8		-6389.5		-2737.9	
RMS		847.2		908		734.8		2860.6		3040.3	
1/2 P-P		1699.3		1876.8		1848.7		4483.4		5613.9	
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-330.1	-234.7	-258.6	-176.7	-36.3	-22.2	-3806.7	1224.7	-409.9	428.4
2nd		-568	-104.2	-632.4	-85.7	-466	-26.6	114.5	90.6	457.4	-95.3
3rd		-728.2	260.7	-818.7	231.7	-692.4	124	283.5	131.6	-664.6	-488.4
4th		213.9	86.7	326.9	126.6	153.8	86.9	-276.2	59.3	3926.1	-1117.6
5th		-441.3	196	-340.5	248.6	-41.8	219.4	223.1	-46.5	-656.6	-3.6
6th		150.6	-18.3	127.4	-7.6	195.7	28.9	-14.4	-11.4	-43.3	-3.3
7th		66.8	-25.4	-192.8	-71.3	-340.6	-97.1	39.9	100.1	-25.4	-88.7
8th		9.6	53.4	33.8	194.9	-98.7	193.9	-260.6	-134.7	294.4	114.7

RUN/POINT 17/ 8	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-338.5	-78.8	-4797.6	-2871.1	122.5	288.6	2942.2	-1140.3	-2091.4	-898.5	1244.4	-612.6
RMS	569.9	-121.5	2201.3	-110.8	159	108.6	-21.7	145.5	1896.2	122	234.8	34.7
1/2 P-P	1125.6	-514.4	3383.7	-193.9	-529.2	262.4	-178.4	-110.9	3308	-38.5	151.3	244.2
HARMONIC		6.2	-338.3	173.6	237.1	17.3	42.7	123.2		-93.6	2159.3	-1012.1
	1st	349.1	-1056.2	-2871.1	122.5	288.6	2942.2	-1140.3		70.9	391.1	-224.3
	2nd	-174.7	19.7	-110.8	159	108.6	-21.7	145.5		-7.4	-37.3	-63.3
	3rd	-284.2	109.6	-193.9	-529.2	262.4	-178.4	-110.9		-67	-4.3	-26.8
	4th	218.6	-338.3	173.6	237.1	17.3	42.7	123.2		-89.9	-117.9	-26.1
	5th	-205.9	141.3	133.2	151.6	-185.8	-178.1	158.3				
HARMONIC		-60.4	39.8	17.1	61.9	-26.1	-5.7	10.9				
	6th	-2.6	25.6	-36.8	-72.3	6.1	-31.6	-79.9				
	7th	-51.5	-238.5	-86.3	-19.3	-58.4	-262.2	-97.5				
	8th											
RUN/POINT 17/ 8	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1684.7	-480.4	-420.1	18	-162.8	128.6	-6518.4	2935.9	-499.9	-13.7	-76.3	7.7
RMS	2513	-14.6	57.5	-17.6	556.2	-118.6	41.6	-83.8	58.9	18	16.2	-1.8
1/2 P-P	4562.7	346.7	123.6	10	1079	539.5	-136	167.6	124.9	-62.9	34.1	-2.7
HARMONIC		-1652.1	-5.8	-8.4	237.5	18.6	-95.7	107.1		-6.2	4.3	-1.9
	1st	672.4	-417.7	-10.3	187.3	113.7	-112.9	-142.1		-12.9	3	2
	2nd	338.5	-62.1	5.7	-63	27.9	12.1	-19.9		11.3	1.6	-1.5
	3rd	371.4	52.6	-0.6	0.5	75.9	-65.6	17.9		3.7	1.1	-0.8
	4th	2877.7	69.4	-0.3	-50	-69.6	-232.6	-113.2		12.5	-1.8	-0.9
	5th	585										
	6th	-44.3										
	7th	40.1										
	8th	113.6										

	MEAN	-217.2	193.7	357.6	518.2	437.5	107.6
	RMS	544.9	316.4	183.8	319.9	374.1	548.3
	1/2 P-P	1123.5	679.3	397.6	717.6	779.5	1129.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-269	-282.8	-197.6	-125.8	-152.5	-110.9	-231.6
2nd	154.3	106.9	82.5	-2.7	-61.3	-11	-302.2
3rd	504.7	-222.9	275.8	-2.5	-199.9	56.4	-559.6
4th	209.6	15.9	117	12.4	-22.5	-36.5	-131.9
5th	-141	156.1	-52.8	70.2	-60.8	-162.2	212.3
6th	57	-8.7	16.1	-39.2	4.6	10.5	-98
7th	68.4	-9.6	12.2	-64.2	-26.9	-34.7	-134.2
8th	-20.2	-53.7	-9.8	2.1	64.6	110	19.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	Blade 1, r/R=0.400	
17/8												
MEAN	-183.3	-428.8	-537.5	-7065.4	-2759.2	-430.1						
RMS	771.9	829	682.5	2238.7	2704	64.8						
1/2 P-P	1641.2	1823.6	1755.2	3538.9	5047.5	123.4						
HARMONIC												
1st	-268.2	-227.4	-216.6	-185.4	-27.1	-36.4	-2927.5	1087.6	-348.3	366.9	8.1	
2nd	-486.5	-80.8	-531.9	-58.3	-382.3	-16.2	6.3	83.1	396.6	-77.3	-34.9	
3rd	-683.2	224.6	-734.5	218.6	-602.7	135.7	187	117.3	-503.7	-408.7	-72.3	
4th	145.6	88.4	224.2	122.3	89.2	94.8	-266.6	91.4	3480.7	-1125.5	8.7	
5th	-318.1	363.9	-239.3	448.7	-21.5	346.7	180	-109.5	-497.1	205.6	5.8	
6th	128.4	-15.3	139	-11	208.5	12.3	-9.1	5.8	-40.6	-20.7	11	
7th	49.5	-12.3	-182.3	-35.7	-293.2	-57.4	-2.1	55.1	3.4	-55.3	4	
8th	19.6	35.8	-0.5	160.7	-136.8	171.9	-228.8	-119.5	252.9	95.9	0.1	

RUN/POINT 17/7	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1015.5	-5294.9	-962.7	-5754.1	-2556.2	-875.7						
RMS	517.1	1395.4	502.9	1448	1219.2	1568.4						
1/2 P-P	989.9	2281.4	962.9	2337.5	2160.2	3024.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	271.1	-107.9	-584.2	-1822.2	109.3	226.3	1904.2	-638	1591.8	-493.7	807	-358.3
2nd	-237.6	-93.4	75.3	-64.1	235.4	98.8	-107.4	80.9	-50.3	65.3	166.3	6.3
3rd	-249.1	-470.1	97.1	-121.3	-474.8	231	-105.2	-98.6	-80	-35.9	100.5	180
4th	191.6	-4.8	-292.8	153.9	196.2	2.3	3.8	87.6	337.2	-90.1	1782.1	-836.1
5th	-197.8	-106.5	157.3	94.9	108.8	-190.6	-143.1	173.1	-67	74.7	278.2	-259.8
6th	-52.5	20.5	28.7	5	48.4	-27.7	-12.7	25.2	-15.6	3.3	-33.5	-58.1
7th	-8.3	-72.4	55.7	-44.8	-66.8	11.9	1.3	-62.7	8.4	-51.6	-1.3	-18.9
8th	-44.6	-30.8	-176.8	-5.6	-23.6	-36.5	-188.2	-14.1	-165.5	-11.4	-84	14.2
RUN/POINT 17/7	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1721.6	-400.9	-829.2	-7013.4	-474.6	-78.3						
RMS	2052.1	56.5	504.2	1381.7	53.2	13.9						
1/2 P-P	3770.3	129.6	951.9	2241.5	123.6	30.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	441.1	-284.7	-8.1	28.2	-193.9	153.5	527.9	1843.4	-14	-12.7	-12.3	7.3
2nd	259	-26.3	-33.7	-20.5	-236.4	-105.5	97.7	-24.6	29.8	21.4	-5	-2.5
3rd	244.2	250.8	51.2	7	240.8	471	-110.5	104.7	10.9	-46.7	-9.7	-1.7
4th	2385.1	-1359.3	-18.3	-17.4	193.1	4.5	-93.7	98.4	-15.5	-17	2	-4.1
5th	415.9	-457.1	-12.3	-9.3	204.6	79.8	-161.6	-108.1	14.7	-14.2	2.3	2.8
6th	-26	-70.1	5.4	-5.2	-48.8	24.5	7.1	-30.3	-5.8	5.8	1.1	-0.8
7th	21.3	45.4	-0.3	7.4	9.7	70.3	-22.5	16.5	8	0.5	1	-0.5
8th	85.2	31	1.8	5.7	-48.3	-39.6	-171.8	-26.3	4.2	7.2	-0.9	-0.7

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
17/7		Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
MEAN		-874.3	-214.5	188.7	438.3	370.1	34.3						
RMS		512.4	298.8	175	289.2	334.7	486.2						
1/2 P-P		985.7	601.9	396	652.1	691.2	1033.2						
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-299.3	-194.6	-137.6	-129	-95	-133.6	-91.2	-132.5	-95.4	-175.8	-177.4	-177.4
2nd		234.7	88.4	55.6	9.9	9.8	-74.2	-15	-106	-24.7	-290.7	-91.1	-91.1
3rd		452.9	-203.5	-104.2	4.5	-17.3	-166.3	56.8	-229.7	92	-503.4	150.2	150.2
4th		183.7	-1.5	-3.4	5.3	-19.3	-81.2	-22.4	-118.8	-16.8	-108.1	-5.4	-5.4
5th		-100.6	179.5	68	51.5	-63	132.5	-179.5	150.8	-220.4	-30.5	-14.1	-14.1
6th		51.9	-13.2	-1.6	-28.2	8.9	-69.3	19.2	-76.6	27.6	45.4	-6.8	-6.8
7th		72.3	-11.2	-9.7	-57.7	-18.6	-119.6	-22.1	-128.7	-11.1	139.4	49.8	49.8
8th		-29.2	-27.5	-0.8	24.2	38.5	47	63.2	48.9	58.3	-35.8	-88.9	-88.9
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
17/7		Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN		-218.7	-431.5	-476.3	-7617				-2777.2			-408.8	
RMS		689.1	733.5	608.3	1398.2				2128.8			57.5	
1/2 P-P		1535.1	1589.6	1507.3	2295.8				4136.6			128.6	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-201.6	-203.5	-161.2	-167.8	-43.5	-1842.6	586.4	-235.7	222.1	6.9	-14.8	-14.8
2nd		-434	-51.6	-455.6	-28.8	-6.2	-65.8	37.5	316.6	-71.2	-35.7	-19.6	-19.6
3rd		-589.9	212.4	-615.9	212	146.5	116.9	97.2	-355	-287.7	-56.9	-16.6	-16.6
4th		109.2	50.5	167.1	73.4	70.3	-187.7	90.2	2696.9	-1020.9	-5.7	-10.9	-10.9
5th		-225.4	409.4	-166.4	496.4	366.3	155.9	-142.5	-401.1	306.7	6.5	20.1	20.1
6th		119.4	-25.4	148.1	-15.9	-0.8	-13.9	7.1	-17	-19.5	8.5	-7.4	-7.4
7th		40.4	-13	-153.7	-20.7	-30.6	33.9	38.3	-32.7	-39.8	3	-8.5	-8.5
8th		31.5	22.2	35.6	104.6	121.4	-177.1	-25.8	183.2	111.6	2.1	4.7	4.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2313.9	-6138.7	-2292.5	-6606.7	-3317	-1139.2						
RMS	401.7	536.2	402.8	545.6	441.4	710.7						
1/2 P-P	798.1	990.2	792.6	967.4		1400						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1			
1st	222.6	96.3	-652.3	194.4	651.9	70.6	536	81.6	297.9	4.6		
2nd	-383.6	-30.1	-45.1	38.2	-293.4	61.9	-206.2	42.5	4.8	3.9		
3rd	-116.2	-234.7	-47.8	113.3	-32.7	-42.5	-30.4	-17.9	25.2	61.1		
4th	98.8	-17.8	101.3	-17	-24.5	40	132.4	-45.5	808.4	-389.9		
5th	-174.1	-26.9	-10.7	-171.9	-22.2	196.2	-9.6	93.2	90.1	-302.4		
6th	-11.4	8.6	-12.9	-14.7	-2.2	12.9	-4.2	3	-20	-25.6		
7th	-5.5	-35	6.1	8.8	-28.6	10.7	-22.9	3.4	-10	-7.4		
8th	-14.3	56.9	76.2	59	-7.6	88.7	-11.3	78.4	2.7	37.6		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1			
MEAN	-1793.1	-357.3	-2110.5	-7826.2								
RMS	974.2	50.8	381.1	44.3								
1/2 P-P	1937.1	110.7	781.5	103.8								
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1			
1st	198.2	-28.7	-19.2	38.9	-169	-37.4	-125.2	586.4	-23.3	-4	5.7	
2nd	95.2	-21.6	-39.8	-26.2	-383.8	-33.2	265.7	-8.9	22.5	-2.8	-3.1	
3rd	68.7	78.9	15	-3	118.2	246.6	-48.4	33.2	-18.7	-5.1	2	
4th	1076.4	-629.8	-19.6	-10.4	96.5	-19.7	-59.3	32.7	-6.5	-1.3	-3.2	
5th	90.5	-507.8	-9.6	-7.8	152.1	10.4	-169.4	-23.7	8.6	1.3	2.5	
6th	-15.1	-29.7	4.8	1.2	-5	9.3	9.4	-20.3	-3.8	0.2	0.4	
7th	23.7	-4.6	0.6	0.8	11.4	30.5	-31.3	22.9	1.2	-0.2	0.4	
8th	15.3	-40.1	1	-6	3.9	45.1	-19	90.5	-5.9	0.7	-0.9	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
17/ 6												
MEAN	-2163.3	-165	-1016.4	-116.5	-142.7	-76	289.8	-71.6	254.4	-76.1	-24.2	-127
RMS	376.7	29.7	217.6	21	102.2	-1.1	174.2	-9.2	209.2	-12.3	-287.5	-41.6
1/2 P-P	720.1	234.5	411	-50.4	219.6	-10.1	395.7	24.9	478.1	41.7	-268.4	72.6
HARMONIC	1st	-76.7	-65.6	-116.5	-59.2	-76	-70.6	-71.6	-66.8	-76.1	-24.2	-127
	2nd	388.4	222.3	21	41.7	-1.1	-73.8	-9.2	-112.9	-12.3	-287.5	-41.6
	3rd	234.5	-96.8	130.3	-50.4	4.6	-86.5	24.9	-120.5	41.7	-268.4	72.6
	4th	94.8	-15.3	53.1	-8.6	2.2	-42.3	1.4	-62	7.9	-58.5	-5.9
	5th	-30	145.6	-11.4	55.5	24	51.6	-145.9	53.3	-176.5	-9.7	-3.3
	6th	7.3	-2.4	3.9	-0.5	-1.9	-9.8	4.1	-11.1	7	6.5	-4.9
	7th	32.6	-6	8	-2.3	-24.5	-2.2	-1.7	-57.3	4.5	60.4	12.8
	8th	-10.6	26.9	2.7	4.3	24.3	-25.4	37.6	31.7	-47	-50.9	37.4
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
17/ 6												
MEAN	-290.2	-142.7	-433	-117	-334.1	-33.5	-8544.1	-113.3	-150.1	36.5	19.7	-27.5
RMS	447.5	-6.3	474.5	9.1	357.3	13.2	521.1	25.2	166.2	-51.6	-39	-22.8
1/2 P-P	1003.8	126.3	1052.2	130.2	934.7	96.7	927.8	43.5	-125.4	-91	-19.2	-0.9
HARMONIC	1st	9.9	28.7	20	22.7	28.7	-76.1	52.9	1123.7	-516.9	-15.5	-10.6
	2nd	-360	-341.3	399.2	-7.3	287.3	36.5	-171.2	-107.9	376.7	9	13.6
	3rd	-326.7	126.3	-342.6	130.2	-280.7	43	43.5	-125.4	-91	-19.2	-0.9
	4th	34.5	7.1	60	20	22.7	-76.1	52.9	1123.7	-516.9	-15.5	-10.6
	5th	-77.3	329.3	-54.9	399.2	-7.3	287.3	36.5	-107.9	376.7	9	13.6
	6th	41.9	-8	74	-5.4	105.1	19.7	2.2	-36.6	3.5	3.9	0.4
	7th	25.2	-5.1	-47.2	-5.4	-69.8	-13.1	23.3	10.1	-21	0.6	-1.3
	8th	25.7	-14	26.1	-58.2	-23.9	-58.8	-10.4	5.2	-68	2.4	-3.5

RUN/POINT 17/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3513.1	135.8	509.3	418.5	-3501.5	-6711.6	-7167.8	-3825.1	-1292			
RMS	401.3	-3.6	349.1	0.2	420	545.1	598.7	486.4	291.7			
1/2 P-P	754.9	5.1	-8.1	-29.6	785.9	1101.6	1249.3	974.3	645.2			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-51.7	135.8	509.3	418.5	-157.2	-68.6	-461.2	518.8	-403.5	427.6	-189.6	223.3
2nd	-537.3	-3.6	349.1	0.2	557.7	6.9	-425.7	6	-319	-10.9	-114.3	-25.7
3rd	1.4	5.1	-8.1	-29.6	3.3	-0.7	-28.4	14	-21.3	12.8	6.9	22.1
4th	21.8	-7.5	-17.9	46.9	20.4	-5	-17.6	-4.9	9.3	-12.2	113.1	-36
5th	-78.2	59.7	76.3	-83.9	-50.9	-84.8	101.9	119.6	51	62.5	-110	-182.9
6th	12.7	-9.6	-13.6	10.3	-16.5	4.9	8.9	-8.9	4.4	-7.5	-30.8	1.4
7th	-4.6	2.4	10.5	26.4	4.8	5.3	21.1	37.1	13.4	26.9	-3.4	-7.1
8th	-1.4	35.6	5.1	35.5	-0.6	34.5	6.9	39.3	2.6	33.4	6	12.8
RUN/POINT 17/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1834	128.3	-26.6	40.6	-3272.6	-58.4	-8395.2	-554.7	-364.8	-27.5	-6.4	10
RMS	322.3	-30.6	-45.6	-31.7	397.9	1.4	620.5	23.2	45	27.3	-0.3	-3.8
1/2 P-P	699.1	13.3	-12.5	0.5	720.7	6.1	1234.1	28.3	96.9	2.3	-1.9	2.3
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-70.1	128.3	-26.6	40.6	82.9	-58.4	-529.4	-554.7	-29.7	-27.5	-6.4	10
2nd	-17.1	-30.6	-45.6	-31.7	-542.7	1.4	377	23.2	34	27.3	-0.3	-3.8
3rd	25	13.3	-12.5	0.5	-3.9	6.1	13.2	28.3	-0.5	2.3	-1.9	2.3
4th	158.2	-61	-20.3	12.6	16.3	-12.8	-12.1	-14.7	-14.4	12.3	-3.4	1.3
5th	-224.7	-300	-4	0.6	70.1	-61.5	-96.1	65.8	-0.4	-5.5	-0.5	0.1
6th	-26.1	12.2	4.4	0.4	18.1	-7	-4.6	-8.9	-4.2	-0.4	0.6	0.4
7th	-12.3	-23.4	-3.7	-2.1	7.2	-5.7	21.1	24.7	-1.9	3.5	-0.4	0.6
8th	-0.7	-23.8	1	-2.8	9.9	41.7	1.5	40.6	0.5	-4.4	0.4	-0.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-3333.7	-1741.8	-439.9	166.2	158.7	-195.7						
RMS	405	233.2	74.6	99.7	125.6	238.3						
1/2 P-P	679.3	384.4	155.5	281.9	334.2	489.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-53.8	99.7	-43.8	46.2	-42.1	-3.8	-39.1	-51.3	-25.8	-51.3	124	-84.7
2nd	552	1.8	320.4	6.8	78.9	-5.7	-5.4	-4.3	-110.1	-4.3	-292.9	-27.4
3rd	-0.6	0.2	-0.8	-0.8	-5.7	-1.2	4.8	9	-18.2	9	-32.5	20.1
4th	20.7	-11.7	13	-6.3	1.1	-0.2	7.7	12.5	-17.4	12.5	-18.8	-7.2
5th	52.1	77.7	21.8	31.6	-7.2	-29.2	-81.7	-96.4	-51.8	-96.4	-3.2	-7.7
6th	-16	12.2	-6.8	5.4	6.6	-0.8	-6.9	19	19	-8.7	-7.5	-1.9
7th	-5.6	-3.3	-1.4	0.4	4.8	5.2	9.1	10.1	8.6	10.1	-9.7	-14.3
8th	-1.2	19.3	3.3	1.8	11.1	-23	-40.7	-38.6	10.9	-38.6	-27.4	39
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-351.6	-431.2	-208.8	-9181.2	-2868.9	-315.3						
RMS	329	331.1	202.2	601.7	292.8	48.1						
1/2 P-P	679.3	789	553.7	1246.5	757.8	107.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	244.9	-74.5	254.3	-57.9	118.7	-19.6	-567.8	-27.4	-77.7	26.2	-29.1	-29.1
2nd	-308.9	8.4	-251.3	23.1	-60.3	25.9	-2.1	64.2	-21.8	-41.6	-27.3	-27.3
3rd	-85.3	39	-112.9	43.9	-118.1	38.6	-10.4	-32.3	-10.9	5.2	0.8	0.8
4th	-15.1	-19.1	-16.7	-18.1	-17.3	-11.1	21.7	137.2	-104.9	-16.3	14.1	14.1
5th	88.1	188.8	103.8	232.3	66.9	169.5	-127.3	170.4	278.1	7.1	2.5	2.5
6th	-10.5	11.1	2.2	13.5	14.6	6.9	-15	-19	20.7	3.3	0.5	0.5
7th	7.7	-3.5	24.7	7.4	33.9	7	21	-15.9	-19.3	3.2	0.9	0.9
8th	13.1	-18.6	21.4	-54.3	21.5	-50.7	40.7	-4.5	-35.5	1.3	-1.7	-1.7

RUN/POINT 41/36	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3389.1	786.9	3525.9	93.1	2555	1064.9						
RMS	320.6	5307.8	310.4	5233.3	4375.6	2400.9						
1/2 P-P	674.4	8005.3	684.8	8119	6846.9	4144.9						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	293	171.8	-3930.5	-6360.6	-106.1	272.8	6163.4	-4032	3312.3	2583.6	-2088.5	
2nd	173.4	-64.9	-483	-148.6	-222.8	68.4	573.7	77.5	73.6	296.3	-8.4	
3rd	-100.4	-179.7	99.5	-104.2	-176.1	94	-107.7	-86.7	-49.1	97.7	66.7	
4th	63.9	22	-58.7	121.8	53.3	17.8	-13.8	-7.7	83.3	470.7	-315.4	
5th	-1.1	-18.2	-29.6	13.1	18.2	5.7	-29.6	-37	-13.5	47.2	55.3	
6th	-25.7	-1.3	14.8	10	26.3	3.8	-21.6	-7.6	-20.9	17.4	-13.8	
7th	-4.2	-7.4	41	2.7	-6.8	3.9	3.4	-7.9	6.8	4.4	-5.4	
8th	-7.6	-43	-212.2	-195.2	3.3	-39.2	-215.5	-214.7	-176.5	-102.3	-125.4	
RUN/POINT 41/36	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-995.2	-428.8	0	-1232.6	5382.2	8254.1	-539.9	-24.6				
RMS	1514.9	46	0	5382.2	8254.1	76.2	37.1	25.6				
1/2 P-P	2779.5	127.2	0	8254.1	76.2	37.1	25.6	40.1				
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1211.4	-1523.7	-3.4	-1.2	0	3722.9	6608	-26.2	-27.7	-22.9		
2nd	198.2	-49.7	44.9	15.5	0	-486.1	-112.2	-4.4	-2.7	-0.7		
3rd	207.3	138	14	31.6	0	-116.8	62.6	-17.4	-0.8	1.1		
4th	639.5	-468.5	15.8	4.9	0	-13.3	57	8.8	-0.4	-0.3		
5th	53.6	87.4	7.9	5.7	0	13.9	-2	1.9	0	0.2		
6th	28	-8.5	-3.2	0.2	0	51.2	15	-1.5	0	-0.1		
7th	4.8	15	-3.9	-3.4	0	-12.2	27.6	3.5	0.2	0		
8th	74.4	79.5	0.4	3.6	0	-172.6	-221.9	3.8	0	0		

RUN/POINT 41/36	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3358.5	-148.8	2446.1	-81.4	1283.6	-44.2	0	0	824.3	-91.1	-483.6	-191.8
RMS	240.1	70.6	140.5	41.6	83.8	-58.5	0	0	132	2.3	-14.5	-36.3
1/2 P-P	545.3	-82.3	303.8	-43.6	194.5	8.3	0	0	273.5	28.3	-172.9	71.3
HARMONIC	1st	31.7	-21.8	-81.4	-44.2	-71.8	0	0	-118.8	-91.1	-483.6	-191.8
	2nd	-208.9	70.6	-129.8	41.6	17.8	0	0	-5.6	2.3	-14.5	-36.3
	3rd	165.6	-82.3	94.1	-43.6	-12.3	0	0	-72.1	28.3	-172.9	71.3
	4th	41.9	9.5	26.2	1.5	-12.6	0	0	-15.9	-22.3	-42.8	-3.7
	5th	-26.6	-5.1	-9.3	-2.1	2.5	0	0	30.1	10.7	-2.6	-3
	6th	17.5	5.7	4.9	2.5	-3	0	0	-30.8	-8	19.1	10.6
	7th	8.1	-2.5	3.4	-2.6	-3.2	0	0	-11.5	-2.6	5.7	6
	8th	-2.7	-25.8	-10.7	-13.7	-19.5	0	0	-18	25.5	32.6	-20.3
RUN/POINT 41/36	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	649.4	-147.1	124.5	-81.8	-629.5	-13.7	-1120.3	3900.8	-2413.5	1065.7	-443.2	6.7
RMS	693.2	-86.3	658.8	-102.9	453.8	-560.3	5131.8	78.8	1151.4	-59.8	48.1	7.8
1/2 P-P	1136.7	110.6	1125.4	-30.6	909.5	-99	7837.4	119.7	2331.8	-151.1	124.9	-36.8
HARMONIC	1st	-910.5	-147.1	-681.5	-81.8	-133.7	-6076.4	42.3	-2413.5	-433.1	21.6	6.3
	2nd	-255.8	-86.3	-581.6	-102.9	-560.3	558.3	20.6	184.4	-56.9	-9.9	-6.3
	3rd	-102.1	110.6	-30.6	103.2	-99	110.1	-18.3	-242	18.6	-3.7	5.3
	4th	28.7	60.8	120	94.9	192.3	-134.6	44.5	971.1	-42	3.8	2.8
	5th	-51	-22.5	-57	-25.1	-13.4	43.9	-240.8	-57.7	247.8	-1.3	0.4
	6th	42.7	10.7	6.1	-7.7	-53	-39.8		56.2			
	7th	10.6	-1.5	-6	-3	-18.5	26.6		-25			
	8th	-26.4	-0.5	-29.7	41.4	-5	-187.9		201.6			

RUN/POINT 41/35	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1815.1	-1705.4	1922.7	-1940.2	753.4	239						
RMS	303	3461.1	296.5	3460.5	2893.2	1567.6						
1/2 P-P	630.1	5250.8	619.2	5122.9	4380.4	2842.8						
HARMONIC	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	203.4	-268.4	-2823.6	-3980.7	251.8	205	4003.2	-2782.7	3372.8	-2286.6	1575.2	-1447.1
2nd	-6.6	-84.8	-269.6	-57	-16.7	75.3	336.8	103	296.4	85.3	226.7	-10.1
3rd	-131.5	-189	66.6	-144	-191	135.2	-121.1	-82.5	-75.7	-55.7	115.8	53.4
4th	66.9	22.9	-78.7	14.9	63.1	30.4	-19.5	-12.8	73.3	-36.4	451.5	-183.7
5th	-49.3	4.6	-24.7	22.7	-7.5	-45.8	12	12.6	8.8	6.7	-12.9	-23.4
6th	-9.4	3.7	7	-1.8	10.8	-2.6	15	19	8.9	16.5	6.9	-16.4
7th	-9.2	-23.9	27.5	-18.5	-22.1	6.3	-10.3	-30.4	-3.2	-28.3	4.7	-16.7
8th	11.3	-4.9	34.7	-43.2	8.2	2.6	27.9	-57.9	31.5	-43.3	10.7	-38.6
RUN/POINT 41/35	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1423.1	-431.4	0	-3692.3	0	-538.2	-53.4					
RMS	1033.8	31.2	0	3501	30.5	19.9						
1/2 P-P	1849.5	70.1	0	5186.7	70.4	33.4						
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	620.6	-1067.7	10.3	-4.3	0	0	2720.5	4119.9	17.3	-7.7	-17.6	-21.7
2nd	189.9	-56.8	6.7	-7.1	0	0	-278.2	-83.1	-4.5	11.4	-0.6	0.5
3rd	250.3	103.1	32	14.9	0	0	-88.3	115.2	12.2	-20.7	0.5	0.5
4th	625.5	-281.1	13.2	12.3	0	0	-34.7	0.6	18.5	16.6	0.1	-0.4
5th	-56.8	-34.9	-0.8	-0.9	0	0	29.8	-1.5	-2.8	-3.2	0	-0.1
6th	-3.6	-16.3	-1.6	-3.6	0	0	3.5	-22.8	0.7	2.7	-0.1	-0.2
7th	14.4	18.4	-0.3	-0.9	0	0	4.4	-14.3	0.3	-0.5	0.2	0
8th	-18.3	23.5	-0.3	1.1	0	0	37.8	-39.6	-2.3	1.2	-0.2	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	
MEAN	1860.9	1510.8	911.6	0	693.6	613.2						
RMS	325	215.7	133.1	0	163	420.5						
1/2 P-P	642	406.2	268.9	0	365.6	723.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	-347.1	-170.1	-249.3	-105.4	-144.4	0	0	-152.1	-91.4	-496.3	-185.8	
	-1.8	76.1	-7.7	47.2	-23.8	0	0	-35.5	-2	-130.6	-56.7	
	185.3	-114.1	104.4	-60.2	3.8	0	0	-92.2	46.8	-195.8	91.6	
	60.8	26.4	34.9	11.6	10	0	0	-30.4	-27.3	-52.4	-21.8	
	-1.9	44.1	-0.2	17	5.9	0	0	5.8	-53.3	-9	0.7	
	10.2	0	3.9	0.3	-5.3	0	0	-16.1	2.4	11.8	3.6	
	23.4	-4.7	4.8	-1.4	-20	0	0	-43.2	6.4	43.3	6.2	
	6.6	-0.1	2.6	-4.1	-1.9	0	0	-8.6	-9.2	9.5	12.6	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$		
MEAN	642	206.4	-524.3	-3782.2	-2740.9	-444.2						
RMS	728.8	723.6	493.1	3454.9	904.3	34.5						
1/2 P-P	1211.6	1245.9	1020.8	5171.7	1840.4	83.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	-904.4	-128.1	-663.7	-51.8	-62.3	-3863.1	2961.5	816.4	-10.6	11.4	11.4	
	-421.6	-80.1	-731.1	-77.6	-583.3	322.3	58.7	-76.2	2.7	-10.1	-10.1	
	-113.6	79.7	-65.6	58.6	-205.4	118.3	101	-282	-30.6	-14.6	-14.6	
	46.3	55	143.6	70.1	195.2	-108.9	24.7	822.1	19.2	16.5	16.5	
	-8.2	103.8	12.8	129.9	94.3	-6.2	-15.8	26.4	1.4	0.8	0.8	
	21.4	3.8	5.9	-8.5	-47.8	-11.3	23	23.3	-2.9	-4.6	-4.6	
	16.2	-10.2	-48.7	3.6	-92.7	31.8	-4.4	-37.6	1.6	0.5	0.5	
	-0.3	-9.7	-11	-17	-4.6	34	-43.2	-36.9	1.7	-0.5	-0.5	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	424.3	617.7	550	0	564.5	425.6				
RMS	344.4	223	127	0	163	393.2				
1/2 P-P	647.7	412.6	254.1	0	358.7	731				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
1st	-354.6	-247.5	-128.4	-88.1	0	-142	-85.6	-431.9	-149.7	-149.7
2nd	82.7	43.2	32.4	10.1	0	-44.7	-4.1	-167.9	-55.3	-55.3
3rd	195.5	108.1	-67.3	-9.6	0	-105.8	57.4	-229.3	99.7	99.7
4th	65.9	37.1	5.1	-8.4	0	-36.9	-19.2	-51.6	-17.1	-17.1
5th	-38.5	-14.3	7.4	-1	0	50.6	-9.6	-4.1	-6.2	-6.2
6th	4.6	1.7	-0.9	-4	0	-11.1	-5.1	2.2	9	9
7th	14.3	-0.6	2	-4.4	0	-37.8	-8.5	37.8	22.9	22.9
8th	6.3	6.8	0.4	-0.6	0	-0.9	-0.8	-2.2	-0.3	-0.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.400$
MEAN	456.3	133	-394.4	-5540	-2770.4	-434.3				
RMS	631	692.4	452.6	2302.2	894.1	35.3				
1/2 P-P	1148.1	1258.9	923.3	3615.8	1889.6	70.8				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.400$
1st	-690.4	-127.2	-498.5	-85.4	-50	-2463.3	2104.9	602.5	5.9	8.9
2nd	-514.3	-56.2	-805.9	-15.4	-552.8	149.6	79.6	-82	-29.1	-11.8
3rd	-102.4	87.6	-31.1	31.3	-194.3	123.9	48.7	-136.6	-22.2	-20.5
4th	43.8	43	145	77.1	183.8	-101	48.8	-470.5	15.5	9.9
5th	-90.2	24.7	-109.9	44.1	10	47.6	12	-38.3	-2.7	-1.9
6th	14.1	9.4	18	-6.3	-25	11	-1.6	16.8	1.9	-1.6
7th	12.8	-3.3	-48	-13	-94.1	7.9	22.7	-25.9	0.4	-2.3
8th	10.3	-1.4	1.1	-2.4	-3.4	94.1	64.3	-61.8	1.1	-1.8

RUN/POINT 41/33	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	MEAN	-282.8	-3994.5	-211.7	-4293.2	-1323.8	-590.4					
	RMS	290.7	1679.2	286.9	1771.5	1478	917.4					
	1/2 P-P	568.7	2820.5	532.9	2829.3		1856.9					
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	157.8	-252.3	-1395.2	1893.5	242.8	154.7	2040.9	-1420.9	1715.4	-1161.5	792.9
	3rd	-58	-51.4	-121.9	-32.9	54.8	68.7	153.1	22.2	137.8	24.5	138.6
	4th	-135.5	-212.8	43.5	-115.6	-219.3	119.1	-90.1	-40.2	-64.1	-11.7	81.4
	5th	85.4	17.4	-139.1	46.3	92.5	16.3	-14	12.5	107.3	-25.7	600.5
	6th	4.9	-24.6	-35.5	47.6	24.7	21.2	-67.9	-42.1	-28	-19.7	94.2
	7th	-11.7	-0.9	8.7	-13.1	8.9	0.2	-4.6	11.8	-7.8	11.7	15.4
	8th	3.1	-7.6	3.1	15.1	-6.9	-1.8	-1.1	9.2	-0.1	4.9	-2.5
		3.2	37.5	101.3	131	-9	26.8	102.1	138.7	84.2	135.1	42.8
												59.6
RUN/POINT 41/33	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	MEAN	-1690.4	-413.6	0	-5947.8	-504.2	-76.6					
	RMS	824.9	34.4	0	1771.4	32.5	10.9					
	1/2 P-P	1680	66.3	0	2860.4	65.6	20.9					
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	286.1	-575.4	-4.7	4	0	1402.6	2053.5	7	-11.7	-8.8	-11.9
	3rd	137.9	-47.3	-29.3	-13.7	0	0	-133.6	-20.7	26.9	13.6	2.1
	4th	182.9	139.7	24.7	14.8	0	0	-48.4	97.5	19.2	-14.6	0.4
	5th	828.9	-352.8	10	13.9	0	0	-55.6	19.4	13.2	10.7	0
	6th	151.9	114.9	2.8	8	0	0	65.6	-57.7	-6.9	3.2	0
	7th	10	-21.5	2.2	-2.5	0	0	13.9	-3.4	-0.7	1.4	-0.4
	8th	-1.7	-0.4	1.9	0.9	0	0	4.2	7.7	2.4	-1.8	0.1
		-33.3	-53.5	2.1	-1	0	0	80.5	154.4	1	-4.5	0
												-0.2

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
41/33		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN		-203.9		227.9		390.8		0		493.4		328.9	
RMS		318.1		206.2		115.5		0		146.7		357.7	
1/2 P-P		570.6		362.3		220.1		0		317		691.2	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-347.5	-122.5	-240.3	-82.9	-138.5	-66	0	0	-133.8	-75.9	-388.4	-139.8
2nd		63.3	51.4	32.6	33.4	-8.5	12.3	0	0	-36.2	-0.7	-139	-52.4
3rd		203.5	-97	112.7	-49.1	4.6	-7.8	0	0	-101	41.4	-227.5	68.8
4th		87.1	17.4	48.9	8.2	8.8	-7	0	0	-46.3	-21.2	-65.5	-26.2
5th		-11.8	-9.4	-4.1	-3.5	5.1	3.9	0	0	14.2	17.2	0.6	0.2
6th		8.2	0.3	3.2	-0.2	-5.5	-1.2	0	0	-15.5	-0.6	10.7	7.6
7th		6.6	4.5	-1.2	2.1	-12.1	-2.7	0	0	-21.7	-6.2	21.2	15
8th		-4	6.1	6	5	20.8	0.5	0	0	22.1	-6.1	-31.9	-7.1
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
41/33		Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN		364.1		66		-345.4		-6248.8		-2773.6		-424.9	
RMS		561.9		629.7		437		1732.7		896.6		39	
1/2 P-P		1001		1153.3		833.5		2842.9		1875		77.2	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-600	-121.7	-411.2	-80.8	-40	-11.6	-1875.7	1541	71.2	456.9	4.9	4.8
2nd		-467.8	-54.7	-743.9	-33.9	-514.7	-16.2	147.1	34.2	159.5	-57.4	-33.9	-13
3rd		-131.5	72.2	-85.9	37.5	-211.5	32.2	101.1	51.3	-215.2	-140.7	-24.7	-19.1
4th		62.3	45.6	197.7	77.2	208.2	43.5	-121.6	47.7	1049.1	-345.5	17.7	14.7
5th		-25.1	-34.2	-48.1	-29.3	63.5	-0.8	48.5	35.9	-88.8	-90.2	0.1	-8.7
6th		23.7	6.2	17.6	-11.9	-33.5	-8.7	0.9	-5.9	-2.8	12.5	1	-1.7
7th		5.6	-2	-21.3	-2.6	-70.5	-19.3	9.8	18.1	-0.5	-19.4	-2.1	-0.7
8th		21.3	1.6	29.9	-13.1	41	-9.6	84.5	157.2	-87.1	-154.9	2.4	-2.6

RUN/POINT 41/32	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-973.1	-196.1	-721.9	-1267.9	184.4	30.9	1427.6	-761.4	1196.9	-620.2	555	-429.3
RMS	229.4	-26.6	-88	-28.8	55.7	54.9	112.6	8.3	104.9	11.8	119	-42.2
1/2 P-P	432.4	-179.5	30.5	-92.5	-184.3	124.5	-71.2	-23	-47.6	-2.9	76.5	69.6
HARMONIC		86.5	-0.4	54.7	96.1	2.6	-17	27.8	95.4	-32.9	567.1	-301
	1st	-49.7	-17.5	67.1	43.6	-17	-81.1	27.7	-38.2	15.3	130.2	-5.9
	2nd	-22	8.2	-6.6	14.8	-0.1	-8.6	-1.2	-8.2	2.4	15.7	-10.2
	3rd	0.3	-8.5	-4.5	-1.9	-2.1	-20.5	-12.9	-14.4	-15.2	-5.9	-16.7
	4th	-2.3	-0.2	6.9	3.4	16.3	18.1	4.7	16.9	8.1	2.1	-7.7
	5th											
	6th											
	7th											
	8th											
RUN/POINT 41/32	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1742.9	-339.5	-2.4	7.9	0	0	724.5	1441.6	1.9	-8.9	-8.9	-9.8
RMS	735.2	-50.1	-30.8	-13.8	0	0	-95.4	-9.7	28.2	13	2.4	0
1/2 P-P	1567.1	95.6	24.1	8.4	0	0	-35.3	81	16.5	-17.3	0.7	0.6
HARMONIC		-468.1	12.2	12.5	0	0	-49.3	25.1	17.6	9.9	0	-0.4
	1st	189.9	1.4	4.8	0	0	1.6	-73.6	-4.7	0.8	-0.2	-0.1
	2nd	121.9	0.8	-3.5	0	0	11	8.7	0	3.6	-0.2	0
	3rd	169.9	-2.2	0.3	0	0	-16	-18.9	0.9	-1.4	-0.1	0
	4th	773.2	15.4	0.3	-1.6	0	18.1	13.5	0.7	0.1	0	0
	5th	195	-6.8	0.3								
	6th	23.1										
	7th	6.4										
	8th	-5.9										

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-898.3	-205	213.3	0	428.5	241.2						
RMS	265.6	171.3	100.4	0	136.5	319.4						
1/2 P-P	432.8	295.6	208.6	0	292.4	596.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-291.3	7.5	-203.4	-5	-123.5	-29	0	0	-125	-58.5	-348.2	-116.8
2nd	59.3	35.7	30.3	23.7	-8.8	9.8	0	0	-34.2	1.8	-126.1	-38.2
3rd	171.7	-104.8	96	-53.9	4.8	-7.1	0	0	-83	45.9	-196.8	80.6
4th	86.6	7.5	48.5	3.4	7.7	-6.2	0	0	-47.4	-13.2	-64.9	-16.4
5th	-22.8	39.6	-8.5	17.2	12.1	-9.3	0	0	32.6	-38.1	-2.5	-4.2
6th	19.2	-2.9	8.4	-0.9	-6.9	-1	0	0	-25.6	2.3	13.3	7.9
7th	5.3	-2.4	0	-0.7	-6.7	1.2	0	0	-15.4	3.1	15.3	0.8
8th	7.7	2.6	2.6	0.5	-3.2	-4.3	0	0	-12	-6.8	10.7	11.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	268.7	16.1	-278.5	-6938.1	-2749.7	-404.6						
RMS	498.5	572.2	430.9	1124.7	818.3	37.7						
1/2 P-P	899.5	1044.1	929.9	1887.8	1667.3	72.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-512	-93.5	-335.5	-52.1	-21.6	11.3	-1292.9	889.9	83.9	289.1	3.6	1.7
2nd	-421.3	-33.9	-668.7	-13.6	-477.5	2	115.5	22	140.9	-48.4	-35.5	-13.4
3rd	-136.6	82.4	-131.3	57.3	-236.5	39.7	81.8	34.4	-176	-94.9	-24.9	-13.4
4th	72.9	34.1	219.5	42	218.8	20.4	-112.4	69.9	953.9	-474.7	19.1	10.5
5th	-53.2	74.2	-61.8	105.1	64.4	76.8	57.2	-30.6	-126.1	66	-1	-2.3
6th	39.9	-2	19.2	-17.1	-28.4	-6.3	-1.5	11.7	0.6	-9.9	1.8	-3.8
7th	7.9	-3.2	-11.4	2.8	-66.1	0	-14.9	-5.8	20.2	3.2	-0.9	-0.2
8th	0.5	-6.7	-20.5	-9.4	-15.9	-3.3	26	13.4	-28.6	-13.3	-0.1	-1.2

RUN/POINT 41/31	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2328.1	-15.7	-5768.4	-363.7	-2298.8	197.9	-6113.1	-504.9	-2945.1	-408.9	-1232.5	-293.1
RMS	245.3	-81.1	445	4.5	255.8	71	540.9	-10.5	451.8	-3.1	495.9	-33.3
1/2 P-P	480	-152.1	917.6	-44.5	478.5	148.3	1054.3	-34	868.8	-11.2	1031.1	52.7
HARMONIC	1st	176.6	3.1	68	81	4.1	-3.2	14.5	94.3	-31.6	507.7	-247.2
	2nd	-81.1	-51.7	-7.6	74.7	71	14.7	-10.5	23.4	-3.1	63.9	-33.3
	3rd	-152.1	-208.3	-44.5	-211.8	148.3	-29	-34	-20.6	-11.2	51.3	52.7
	4th	71.8	3.1	-112.9	68	4.1	-3.2	14.5	94.3	-31.6	507.7	-247.2
	5th	-54	-52.8	47	73	-60.9	-73.5	65.7	-35.6	31.7	131.2	-79.4
	6th	-16.6	2.4	12.4	-4.7	-1.8	-5.2	-0.2	-6.4	2.3	14.4	-17
	7th	-1.1	-15.7	-18.3	-9.8	1.4	-26.4	-11.2	-20.2	-15.9	-1.9	-16.5
	8th	5	33	58.1	48	19.1	54.5	50.6	46.9	52.1	23.2	13.8
RUN/POINT 41/31	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1835.1	-235.9	-355.7	-2.6	0	0	-7655.4	483.6	-429	-5.4	-76.2	-7.2
RMS	620	-25.9	35.6	-30.4	0	0	512.6	14.2	31.3	14.8	6.8	0.1
1/2 P-P	1309.6	74.8	83.6	30	0	0	1038.8	32.6	65.6	-22.1	15.1	0.8
HARMONIC	1st	64.6	382.2	1.2	0	0	501.2	17.8	6.1	3.2	0.1	-0.2
	2nd	76.4	-156.4	3	-2.1	0	9.7	-77.7	2.8	2.7	0	-0.3
	3rd	103.3	-5.3	3.1	-3.5	0	-40.2	7.4	-1.4	2.5	-0.1	0
	4th	684.1	8.7	-0.8	2	0	-53.3	-13.2	2.7	0.2	0.3	0.1
	5th	181.3	-22.3	-0.2	-0.3	0	-43.5	55.6	0.7	-2.9	-0.2	0.1
	6th	11.4				0	9.6					
	7th	15.6				0	-28.2					
	8th	-15.9				0	47					

RUN/POINT 41/31	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2244.4	-1041.9	-1041.9	-129.1	0	305.4	52					
RMS	234.3	139.2	139.2	75.2	0	133.7	262.8					
1/2 P-P	484.8	293.3	293.3	152.6	0	274.8	514.9					
HARMONIC	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-103.9	-143.2	-80.4	-96	-69.7	-61.5	0	0	-93	-56.4	-234.2	-91.5
2nd	92.5	46	50.6	30.1	0.7	10.4	0	0	-34	-3.3	-111	-42
3rd	201.3	-127.2	112.8	-65	6.9	-8.1	0	0	-94.6	54.6	-217.4	93.5
4th	69.2	5	38.7	2.7	5.6	-4.8	0	0	-38.2	-8.1	-58.7	-11.5
5th	-42.6	56	-16.9	23	17.5	-14.7	0	0	54.2	-57.3	-1.8	-6.7
6th	15.3	-1.8	6.6	-0.9	-6	-1.2	0	0	-20.5	1.9	11.3	4.9
7th	13.2	-1.1	3.5	-0.4	-8.8	-0.6	0	0	-24.5	0.5	19.1	7
8th	9.3	14.5	4.3	3.7	-0.8	-13.8	0	0	-11.5	-25.6	5.1	30
RUN/POINT 41/31	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	26.9	-131	-131	-182.5	-8134.8	-2728.6	-365.2					
RMS	361.9	426.7	426.7	342.9	548.6	734.9	36.5					
1/2 P-P	703.9	808.6	808.6	711.8	1060.8	1504.3	78.3					
HARMONIC	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-258.7	-96.1	-166.8	-75.7	2.1	-15.7	-437.1	598.6	59.9	197.8	3.2	-7
2nd	-337.6	-5.3	-458.6	12.8	-334.2	11.9	12.3	11.9	100	-18.7	-34.2	-14.1
3rd	-178.7	89.8	-215	87.7	-253.4	68.8	39.8	40.2	-121.6	-80.7	-28.9	-13.3
4th	61.4	23.2	177	13.3	151.8	11.1	-93.8	59.6	868.8	-417.9	8.3	5
5th	-101.6	114.4	-82	150.2	50.6	97	80.6	-54.1	-180.5	110.8	-5.5	5
6th	39.2	-10.4	9.6	-8.1	5.7	-4.7	8	4.5	-13.2	2.1	1.6	-2.7
7th	18.5	1.4	-15.2	-14.3	-84	-5.8	-18.8	-4.9	17.7	4.4	1	-2
8th	-2.6	-9.6	-14.6	-31.6	-32	-34.4	53.4	55.4	-56	-50.8	0.2	-1.3

RUN/POINT 41/30	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3574.7	188	-6719.5	95	-3553.9	76.4	-7042.4	102	-3764.7	82	-1530.1	18.9
RMS	274.3	2	385.7	145.1	286.2	13.5	299.3	0.8	256.6	-1.1	358.7	-28.7
1/2 P-P	561.1	-202.7	826.5	32.2	592	151.3	710	-31.2	518.4	-11.5	705.9	30.3
HARMONIC	67	-7.2	-87.1	67.1		-9.1	-14.6	4.5		-33.9	408.5	-212.8
	4.7	-27.3	-24.3	23.5		4.8	-41	-27.9		-15.6	56.4	46.2
	-20.5	7.9	21.2	16.7		-10.8	-0.7	-3.1		-0.1	15.2	-15.6
	-0.4	-14	-10.2	-12.9		-0.1	-23.5	-22.5		-23.6	-6.2	-17.1
	-1	-31	-7.9	-1.7		-27.3	-16.9	-39.5		-30.3	-10	-23.2
RUN/POINT 41/30	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1934.9	-19.2	-321.3	-6.4	0	0	-8571.7	-349.8	-382.5	-8.9	-67.7	-5.1
RMS	475.3	-17.5	30.7	-31.2	0	0	298.1	5.6	27.3	11.4	6.4	0.4
1/2 P-P	891.9	46.9	66.4	16.9	0	0	675.6	-16.7	56.1	-15.3	14.6	0.3
HARMONIC	-103.3	-323.9	-7.9	-7.9	0	0	-39.7	18.9		-1.9	0	0
	26	61.1	1.4	1.4	0	0	30	-37.5		1.2	0	0.1
	56.7	-3	1.9	1.9	0	0	4.8	-0.8		2.4	0	-0.1
	554	16.3	-1.7	-1.7	0	0	-29.6	-19.3		0.6	0.2	0.2
	82.2	20.6	0.4	0.4	0	0	-14.6	-36.2		4.4	0.3	-0.1
	10.3											
	15.8											
	10											

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3481.9	-1804.2	-436.9	0	200.9	-116.4						
RMS	245.2	136.2	48.5	0	113.1	216						
1/2 P-P	534.1	281.1	123.6	0	296.8	420.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	103.6	-44.7	54.5	-32.4	-6.5	-25.9	0	0	-51.7	-29.5	-58.4	-44.2
2nd	203.6	-8.4	117.8	-1.3	25.3	-0.4	0	0	-42.5	0.2	-164.2	-14.5
3rd	201.6	-136	112.6	-69.6	8.3	-8.5	0	0	-92.7	56.7	-210.9	95.7
4th	61.8	-5.1	33.8	-2.4	1.5	-2.9	0	0	-39.6	1.5	-49.4	0.3
5th	-23.1	-11.5	-9.5	-4.5	5.5	5.2	0	0	22.3	20.3	0.1	-1.7
6th	20.9	-9.7	9.1	-2.7	-6.7	4.1	0	0	-25.3	15.1	14.9	-6.4
7th	11.3	0.9	4.4	-0.4	-3.7	-2.4	0	0	-17.1	-2.8	12.9	6
8th	16.3	-29	3	-3.6	-17	28.8	0	0	-31.9	50.3	55.5	-50.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-199.2	-305.4	-159	-9141.5	-2753.9	-329.3						
RMS	266.8	286.7	234.5	320.2	564	29.5						
1/2 P-P	503.2	591.9	561.2	718	1120.1	59.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	24.3	-51.8	63.2	-44.3	72.1	-19.4	385.4	43.9	66.6	53.9	6.2	-9.5
2nd	-255.9	26.5	-263	39.6	-164.6	28.4	-139.9	24.1	66.1	-13.7	-31.8	-10.8
3rd	-221.6	115.8	-225.8	113.5	-189.1	81.8	-7.6	37.8	-63.7	-44.1	-18.9	-5.4
4th	54.9	-1	94.5	-3.2	70	4	-68.4	49.7	667.5	-367.5	-0.8	-2.5
5th	-29.1	-33.3	-5	-47.9	40.5	-40.4	32.4	34.9	-63.1	-77.4	-2.8	0.3
6th	42.8	-14.8	33.2	-7.1	36.2	-3.8	-3.4	20	7	-29.3	2.7	-2
7th	17	-8	-14.8	-7.2	-44.5	2.4	-16.3	-10.7	11.6	8.2	1.6	-2.9
8th	-13.4	18.8	-50.3	72.9	-76.2	80.5	-9.6	-40	9.6	43.2	-0.4	1.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
34/38										
MEAN	3410.7	1105.1	3552.4	408.7	3552.4	408.7	3552.4	408.7	2747.1	1078.2
RMS	416.9	3857.1	422.9	3889.1	422.9	3889.1	422.9	3889.1	3258.7	1763.3
1/2 P-P	752.3	6074.9	790.1	6216.8	790.1	6216.8	790.1	6216.8	5237.9	3340.3
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	-139.9	-438.9	-2866.7	-4580.3	429.3	-168.9	4680.1	-2768.6	3941.1	-2283.8
2nd	188.3	-105.3	-542.8	52.8	-232	83.5	641.4	-55.1	538.3	-34.7
3rd	-114.3	-230.6	117.1	-148	-232.9	99.3	-150.7	-107	-99	-51.9
4th	80.4	1.1	-103.7	130.5	67.2	-2.9	-25.5	23.2	89.7	-85.8
5th	-18.8	-59.3	-15.8	75.9	55.7	14.3	-55.6	-27.7	-22.6	-13.7
6th	-27.7	-4.8	42.5	-0.7	20	11.9	-14.6	-8.3	-8.2	-6
7th	-5.5	-11.1	20.1	-5.7	-12.8	1.8	-19.4	-28.4	-14.3	-29.5
8th	-8.5	-58.9	-244.3	-224.6	-4.1	-37.7	-250.7	-238.3	-203.5	-234.3
										-117.8
										-124.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
34/38										
MEAN	-1031.9	-417.2	3457.4	-723.4	3457.4	-723.4	3457.4	-723.4	-530	12.3
RMS	1280.4	61.8	405.7	3819.4	405.7	3819.4	405.7	3819.4	46.6	40.4
1/2 P-P	2640.7	150.6	832.7	6101.8	832.7	6101.8	832.7	6101.8	109.8	71.2
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
1st	691.7	-1070.4	23	2.4	242.9	368.1	2424.1	4765.8	5.3	-9.1
2nd	213.1	-64.5	52.1	20.7	190.7	-103.5	-585.3	76	-38.3	-6.1
3rd	262.3	221.5	40.8	29.9	104.8	232.7	-116.5	112.7	16.1	-37.9
4th	770	-882.1	26.5	15.2	67.4	6.4	-22.3	92.8	25.4	10.2
5th	142.7	101.2	6.7	6.2	8.9	36.5	27.8	-49.5	-1.2	2.8
6th	38.3	2.3	-5.4	1.9	-18.5	-1.7	19.5	28.3	2.7	-3.2
7th	22.2	23.7	-3.4	-1.9	7.7	14	-46.6	-12	1.3	4
8th	91.8	78.6	-1.3	4.6	-16.5	-60	-220.9	-233.2	-2.4	5.4
										0.9
										-2.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	3376.9	2456.1	1297.1	959.5	825.9	796.5						
RMS	503.1	328	155.4	157.4	170.1	445.8						
1/2 P-P	912.7	592.1	290.5	393	405.7	893.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
1st	-514.4	329.9	-358.2	204.8	-188.3	50.5	-169.7	-29.9	-168.5	-58.9	-544.6	-159.1
2nd	-208	88.1	-130.1	51	-60.6	19.7	-21.5	5.2	-5.3	-0.1	-8.5	-45.1
3rd	227.5	-99.8	128.1	-52.6	10.2	-16.5	-68.8	18.1	-100.7	33.2	-231.5	85
4th	64.3	-3.8	39.2	-7.2	16.8	-14.8	-10.4	-18.4	-25.1	-17.3	-62.6	8
5th	-56.1	8.2	-21.9	4.2	19.8	2.9	57.8	2.3	66.5	0.1	-2.1	-5.1
6th	20.4	4	9.1	0.5	-7.1	-8.4	-19.8	-13.7	-24.2	-13.7	11.3	14.1
7th	9.3	-1	2.6	-2.6	-6	-6.6	-12.8	-8.5	-15.3	-5.8	11.9	13.1
8th	4.9	-46.5	-10	-17.7	-33.1	23.2	-44.6	59.3	-34.1	63.9	68.9	-56.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	679	105.9	-667.4	-641.6	-2446.5	-438.4						
RMS	737.6	672.6	461.9	3575.8	1107.4	55.8						
1/2 P-P	1375.2	1317.5	1031.2	5744.4	2351	145.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
1st	-968.4	-94.4	-665.8	-42.3	-102.7	-13.8	-4309.6	2514.9	77.3	744	-10.4	0.4
2nd	-250.5	-94.5	-594.4	-84	-538.8	-17.4	626.6	-115.1	189	-83.2	40.7	12.4
3rd	-137.2	134.9	-58.5	111.5	-137.9	55.5	146.7	125.6	-336.6	-236.1	-34	-33
4th	43	64.8	157.3	102.1	219.7	93.9	-138.4	37.6	983.1	-714.4	37.5	4.8
5th	-127.5	3	-152.6	12	-60.4	19.7	78.3	12.2	-111.2	-50.1	-11.2	-5.3
6th	39.4	7.7	7.5	-12.1	-63.3	-24.9	-10	0.2	16.1	-0.7	-3.4	5.2
7th	7.6	-0.4	-20.6	-10.5	-34.9	-19.8	-13.2	31.4	-1.4	-36.1	3.6	1.6
8th	-35	10.9	-59.8	99.4	-40.4	125.9	-228.4	-254.5	237.4	257.7	-1.4	2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1788.5		-1638.5		1928.1		-2158.4		488.9		10.4	
RMS	359.9		2940.9		358.9		2908.5		2427.2		1306.4	
1/2 P-P	586.6		4541.8		599		4373.3		3654.2		2418.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-59.5	-381	-1996.5	-3630.2	371.9	-71.2	3602.7	-1954	3019.6	-1601.8	1369.6	-1028.1
2nd	-40.7	-74.1	-222.9	-26.9	45.2	77.4	247.4	56.3	231.3	38.6	200.4	-36.2
3rd	-175.6	-242.3	62.6	-164.8	-258.9	162.3	-120.9	-76.6	-67.1	-41.7	180.4	91.9
4th	73.4	16.2	-108.3	43.3	67.7	13.8	-4.1	-3.3	93.3	-61.4	497.1	-355
5th	-73.4	-24.3	10.3	57	44.5	-59.5	-26.3	29.8	-6	13.9	80.5	-38.6
6th	-8.2	-5.6	30	-13.9	1.6	7.5	-7.2	21	-3.6	15.2	-8.2	0.6
7th	-9.7	-24.9	8.7	-33.8	-25.5	0.4	-26.8	-31.9	-18.6	-29.8	-3	-16.8
8th	7.5	6.1	55	-11.6	3.3	14.3	44.3	-17.7	43.5	-11.2	10.3	-2.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1558.3		-426.8		0		-3379.3		-525.4		-21.9	
RMS	958.4		30.4		0		2967.3		27.7		26.9	
1/2 P-P	1873.4		61.6		0		4522.6		67.7		43.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	503.1	-793.4	7.6	-8.7	0	0	1858.7	3746.6	19.8	-6.8	-32.2	19.1
2nd	196.4	-95.8	-10.5	-8.4	0	0	-230.8	-53.3	9	9.7	-0.7	-1.2
3rd	350.6	141	30.4	16.1	0	0	-81	131.6	13.5	-15.7	-2.9	-1.7
4th	671.1	-519.4	12.9	8.7	0	0	-21.2	31.5	17.1	9.7	3.9	0.7
5th	106.5	-72.2	-0.6	-1.1	0	0	-5.5	-48	0.6	-3.5	1.5	1.2
6th	6.1	-7.8	-2.8	-1.8	0	0	12.9	-12.2	1.4	3.2	-0.4	-0.8
7th	21.5	22.6	0.4	2.7	0	0	-25.7	-9.8	3	-1.6	0.7	-0.7
8th	-24.1	2.6	0.9	-0.9	0	0	46.7	-7.9	0	0.8	0.1	0.2

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RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3500.1		-5928.1		-3493.4		-6258.1		-3084.2		-947.8	
RMS	358.7		649.5		357.2		725.4		596		433.6	
1/2 P-P	534.9		1120.2		534.5		1265.7		1029.3		763.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	479.2	-68.7	-871.8	231.6	11.7	481.1	-215.4	-984.8	-162.6	-814.4	-88.5	-578.8
2nd	-125.8	26.1	15.4	-51.8	130.8	-12.8	-46	58.4	-30.8	45.2	8.6	19.1
3rd	-29.5	-37.3	-6.1	-12	-36.6	31.5	-10.5	8.3	-5.4	14.1	17.2	40.6
4th	15.2	4.3	-28.7	16.2	17.2	6.9	0.9	22.9	17.9	1.7	85.4	-68.8
5th	54.4	-10.9	-78.6	24.1	15.1	50.5	-45.4	-67.5	-23.7	-34.9	34.6	108.4
6th	-8.7	2.1	9.8	-7.8	8.4	1.9	-4.2	1.9	-0.4	2	-2	-0.7
7th	2	5.1	-15.9	20.9	3.3	1.6	0	33.5	-3.9	25.1	-8.9	-4
8th	9.7	-7.1	10.3	4.4	9.1	0.2	12.4	0.5	9.1	3.4	10	-9.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1669.9		-347		0		-7533.3		-395.1		-97.8	
RMS	348.3		55.1		0		691.7		49.8		7.9	
1/2 P-P	730.8		98.6		0		1165.8		94.4		17.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	-57.7	-403.3	-33.8	67.1	0	0	888.5	-363.6	-53.2	-39.4	-5	-7.9
2nd	26	3.3	-14.9	-3.6	0	0	41.9	-49.3	16.4	2.6	-2.6	-0.6
3rd	30.6	35.8	11.3	0.5	0	0	18.2	17.1	3.3	-12.6	-3.3	1.9
4th	111.7	-115.8	3.4	4.9	0	0	12.5	7.3	5.6	7.4	0.4	0.8
5th	82.9	169.8	1.5	-0.5	0	0	91	-15.5	-1	3.2	-1.9	0.1
6th	12.7	-5.2	0.6	-2.1	0	0	8.4	6.7	-0.7	1.4	0.5	-0.6
7th	-4.9	-18.9	-0.8	-0.2	0	0	-7.1	31.2	-1.8	0.5	0.3	0.7
8th	-4.9	-2.1	-0.6	0.3	0	0	11.5	7.1	-1.5	0.7	0.4	-0.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2145.9		-981.8		-105.4		339.7		317.1		22.8	
RMS	302		185.4		96		96.1		108.4		194.7	
1/2 P-P	491		281.7		170.4		216.9		239.7		400.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	145.6	-361	78.1	-231.4	14.3	-130.6	-95.4	-45.1	-96.2	-106.9	-147.2	
2nd	75.7	-16.1	42.2	-8	-1.9	-2.4	5	-44.8	7.6	-119.2	5.4	
3rd	130.3	-73	72.7	-38	2.5	-5.8	22.1	-67.2	33.5	-153.6	57.1	
4th	17.9	10.4	10.2	5	1.5	-1.4	-4.1	-10.9	-5.1	-13.1	-6.5	
5th	11.8	-34.1	3.7	-12.9	-8.6	12.6	37.7	-23	45.1	4.1	-2.2	
6th	10.1	-1.8	5.9	-0.2	-0.6	1.3	2.9	-9	2.7	4.7	-2.9	
7th	4.1	-2.1	3.5	1.1	2.6	5	7.4	-3.4	7.6	1.9	-7.6	
8th	12.2	-9.2	2.7	-1.5	-11.1	8.2	14.1	-21.6	12.9	27.9	-8.1	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-120.7		-277.5		-254.7		-7187.3		-2734.5		-380.1	
RMS	246.1		268.4		237.5		1005.4		370.6		41.2	
1/2 P-P	500.2		564.5		481.4		1606.3		788.4		82.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-152.3	-143.5	-132.1	-117.1	-24.3	-36.9	931.6	-149.2	305	24.9	-40.5	
2nd	-209.1	29.5	-272.4	36.3	-277.5	19.3	101.9	71.6	-21.3	-29	-4	
3rd	-124.6	75.9	-95.8	77.5	-66.3	70.4	20.8	-82.9	-52.4	-9	-8.7	
4th	23.6	8	61	13.6	104	6.2	19.1	226.3	-209.9	-5.4	5.5	
5th	55.1	-81.7	63	-99.9	49.6	-68.8	72.4	-5.3	-157.2	0.8	-5.4	
6th	20.2	0.2	13.9	-0.3	-13.8	-1.4	-3.6	-5.3	7.9	1.3	-0.8	
7th	5	1.7	1	9.1	-8.3	11.3	4.3	32.4	-9.2	0.1	0.4	
8th	-7.1	4.7	-32.9	22.1	-30.8	23.7	-30.2	19.9	31.2	-0.4	1.2	

C-4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2281.9	-4983.4	-2261.2	-5298.1	-2226	-642.2						
RMS	395	1078.9	406.2	1165	958.1	636.2						
1/2 P-P	647.2	1734.3	674.7	1879.6	1530.2	1092.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	422.5	312.2	-1166.4	412.1	1237.7	-1070	1029.8	-866.4	594.2	-628.4		
2nd	-58	9.2	-88.9	-3	1	98.1	4.4	81.5	46.6	29.6		
3rd	-89.2	-149.9	-38.2	85.9	-38.4	-13.2	-32.1	4	22.4	65.9		
4th	16.1	13.9	44.9	14.5	7.8	10.3	29.5	-20.2	119.4	-149.3		
5th	32.6	5.2	-57.7	24	-5	-67.1	-13.7	-34.5	13.6	98.7		
6th	-11.6	1.1	0.7	-0.2	-1.5	-4.7	-0.1	-2.4	-1.3	4.4		
7th	-1.6	-4.3	12.5	1.2	-9.6	6.8	-12.5	1.3	-14.2	-8.1		
8th	6.3	-7.5	-28.6	-7.2	-26.1	-30.1	-23.2	-27	-6.1	-23.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1564.3	-375.4	0	-6617.2	0	-434.8	-99.7					
RMS	477.6	47.7	0	1018.6	0	40.3	5.5					
1/2 P-P	913.5	88.5	0	1614.5	0	83.3	13.5					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	331.5	-467.1	-25.4	54.7	0	939.2	1076.3	-37.7	-28.2	4.1	-2.5	
2nd	53.8	-6.3	-26.2	-5.2	0	-14.5	-78	27	5.9	-4.6	-0.4	
3rd	59.1	72.5	7.8	5.2	0	-20	42.5	8	-7.7	-1.3	1.3	
4th	151.4	-230	-4	7.4	0	-1.7	5.3	-3.6	8.7	-1	0.2	
5th	43.5	163.1	0	3.8	0	77.8	-18.4	-4.3	-0.3	-0.3	-0.1	
6th	5.6	8.5	0.8	-1.2	0	10.6	8.1	-0.8	0.9	0	-0.5	
7th	1	-2.3	-0.2	-0.6	0	-26.7	-3.3	-1.5	-0.7	0.5	0.6	
8th	14.6	8.8	-0.3	1.2	0	-26.1	-29.4	-1.1	1.7	0.4	-0.5	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-772.8		-130.3		242.1		491.8		437.3		183.7	
RMS	170.7		104.9		58.3		99.6		119		256.8	
1/2 P-P	306.9		183.6		134		227.2		260.7		478.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-133.4	40.3	-100.7	10.3	-64.1	-37	-79.2	-73.1	-85.3	-89.7	-222.5	-172.6
2nd	19.3	35.5	7.3	22.3	-16.8	7.6	-37.5	4	-43.5	3	-109.3	-21.4
3rd	175.3	-63.4	97	-32.2	3.1	-7.3	-63.7	15	-88.7	24.5	-194	38
4th	36.7	9.3	20.9	4.7	3.7	-2.8	-11.9	-6.1	-18	-7.8	-24.1	-10.9
5th	5.4	-16.9	0.7	-6.1	-7.3	5.9	-14.4	18.2	-15	22.4	4.1	-4.1
6th	14.1	-1.8	6.4	0.4	-4.5	2.3	-14.6	3.4	-16.5	3.7	10	-2.3
7th	3.2	1.4	0.8	2	-2.5	2.9	-5.8	2.4	-7.2	2.1	7.5	-2.7
8th	7.9	-4.3	0.5	-1	-9.1	2.9	-16.8	5.1	-15.4	3.8	20.8	-0.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	33		-162.6		-335.2		-5892.7		-2676.3		-415.5	
RMS	363		408.6		358.1		1239.2		487		32.9	
1/2 P-P	656.3		766.6		666.8		2015.6		1019.9		61.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-363.3	-165.3	-354.6	-132.1	-85.1	-16.5	-1526.3	829.1	-90.2	334.4	18.2	-28.1
2nd	-269.4	-19.3	-403.2	-1.6	-460.3	-9.2	119.7	39.9	119.3	-43.6	-23.3	-9.5
3rd	-145.7	66.5	-93.1	56	-49.3	42.4	72.7	32	-123.4	-106	-13.2	-13.6
4th	31.1	16.7	92.2	32.4	159	25.1	-52	11.6	444	-267.2	-1.3	-0.7
5th	38.8	-36.4	38.9	-45.9	18.8	-24.3	20.3	54.5	-26	-114.7	0.5	-4
6th	26.2	-0.2	11.2	3.6	-30.5	6.2	-15.1	-6.5	24.2	10.4	0.5	-0.7
7th	3.5	4.4	-4.7	7.2	-6.7	1.4	7.9	-17.5	-1.5	20.6	-0.3	0.3
8th	-7.4	3.3	-24.6	9.3	-17.4	7.5	-54.1	-64.4	51.9	62.2	0.1	0.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-904.3		-3779.8		-851.1		-4061.1		-1127.6		-209.6	
RMS	162.2		1343.7		157.2		1420.2		1184.9		739	
1/2 P-P	306.3		2138.7		290.5		2293.8		1934.6		1419	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	51.9	11.7	-810.5	-1702.2	-52.7	13.1	1741	975.8	-806.5	1456	739.1	-589.8
2nd	-35.5	-8.7	-113.1	-43.5	5.8	51.7	106.5	33.6	28.8	94.1	110.7	4.5
3rd	-197	-84.4	28.8	-70.5	-189.1	75.1	-70.6	-21.3	4.9	-56.3	20.3	97.9
4th	11	35.2	-73.9	51.7	33.1	16.5	-9.4	34	-22.6	50.2	302.4	-263.9
5th	-8.5	14.6	-59.1	44.5	2.2	9.8	-35.5	-44.9	-26.9	-19.2	29.5	60
6th	4.2	-12.4	7.3	9.2	11.4	-2	-0.5	1.7	-0.6	-1.2	-3.9	-3.3
7th	-2.9	2.2	8	-3.3	-2.4	-3.3	22	-6.4	-5.3	14.2	-12.6	-12.1
8th	-18.5	-3	-55.3	-53.3	-7.4	-17.4	-63.9	-72.5	-68.2	-52.5	-24.4	-42.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1408.7		-406.6		0		-5436.6		-480.4		-95.2	
RMS	610.1		38.7		0		1282.6		33.6		8.6	
1/2 P-P	1278.9		68.5		0		2113.1		66.8		18.5	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-480.4	355	-18.8	42.5	0	0	755.2	1632.1	-26.9	-25.1	-6.2	8.4
2nd	-35.5	104.1	-21.9	-10.3	0	0	-128.3	-17	23.4	10	-4.9	-0.8
3rd	115	89.6	10.6	9.7	0	0	-31.3	72.2	12.2	-6.4	-1.5	0.2
4th	-406.7	401.4	-1.4	1.2	0	0	3.7	16.4	-1.2	3.4	0.2	-0.5
5th	99.5	58.4	0.1	3.8	0	0	66.5	-33.6	-4.7	0	0	-0.3
6th	-1.7	1.6	-0.2	-0.7	0	0	5.7	7.2	-0.6	0.8	0.1	-0.5
7th	4.4	-16	0.6	-0.5	0	0	17.7	-20.8	-0.3	-0.9	0.7	0.9
8th	29.6	25.5	0.5	1.9	0	0	-59.6	-74	-0.8	2	0.5	-0.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-78.9		299.7		416.5		567.7		497.7		265.7	
RMS	165.1		106.7		67.4		107.6		126.6		283.1	
1/2 P-P	286		187.6		135.8		230.3		262.2		520.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-138.7	-21.5	-107.2	-26	-55.3	-68	-87.5	-83.9	-94.6	-99.8	-267.8	-187.9
2nd	-2	37	-6.5	23.6	8.3	-23.6	-40.3	5	-45.3	3.1	-117.9	-23.8
3rd	162.6	-63.5	89.5	-32.8	-6.6	-0.5	-64.3	18	-87.6	27.3	-188.4	40
4th	43.7	7.2	25.2	3.7	-3.3	4	-15.6	-6.5	-22.9	-7.6	-29.7	-13.2
5th	0.3	-15.5	-1.2	-5.2	7.5	-4.7	-7.6	20.9	-7.2	24.2	4.6	-4.3
6th	13	-0.9	5.6	0.5	1.8	-5.8	-15.9	2.9	-18.3	2.4	9.4	-3.3
7th	3.8	1.9	1.5	2.7	3.4	-2.1	-6.5	2.9	-7.2	2.1	7.8	1.4
8th	0.4	-7.5	-2.9	-1.7	7	-6.3	-9.2	12.4	-6.5	10.1	12.6	-9.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	109.7		-110		-386.9		-5204.1		-2664.4		-431.5	
RMS	423.1		482.8		407.7		1812.3		611.8		29.5	
1/2 P-P	730.1		873.3		728		2864.1		1277.6		56.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-450.9	-172.3	-449.2	-131.7	5.6	-106.1	-2177	1319.8	-121.9	456.7	19.5	-20.9
2nd	-314.1	-30.2	-472.9	-15.1	-24.5	-533.2	172.6	86.7	140.5	-52.2	-19.8	-10.8
3rd	-126.8	67	-65.4	55.7	32.7	-32	91.9	24.3	-160.1	-110.5	-14.3	-12.7
4th	34.1	15.3	101.5	27.3	25.3	170.1	-68.7	23.9	576.7	-283	0.9	-0.2
5th	21.8	-39.7	14	-42.1	-16.8	-2.2	28.1	55.9	-36	-121.2	0.5	-3
6th	28.4	0.9	12.7	1.4	4.1	-29.9	-18.3	-4.1	31.5	7.7	1	-0.1
7th	4.6	5.3	-3.2	5	-4.5	-4.3	11	-20.9	-3.5	22.8	-0.1	0.5
8th	-6.3	5.4	-11.3	16.5	14.4	-0.6	-91.1	-57.1	95.3	54.3	0.1	1.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-192.4	-3113.9	-123.7	-3393.5	-528.7	25.3						
RMS	156.8	1885.5	151.4	1952.6	1632.2	968.5						
1/2 P-P	278.9	3006.3	275.9	3077	2608.3	1764.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	41.8	16.6	-1224.8	-2350.4	-27.1	34.6	2371.1	-1386.3	1989	-1145.7	996.5	-803.9
2nd	2.6	-33.3	-163.8	-80.5	-25	39.9	148.8	91.5	129.1	72.7	130.8	12.6
3rd	-85.8	-186.3	25.9	-92.5	-179.4	76.7	-96.8	-14.8	-75.3	11	27.5	92.9
4th	46.9	9.5	-74	47.7	44.5	17	-8.9	28.2	59.5	-24.7	355.6	-256.3
5th	16.5	-12.7	-51.2	52.5	8.4	13.5	-36.8	-56.4	-16.1	-32	41	77.2
6th	-14.5	2.5	12.7	8.9	14.1	-0.9	-4	-3.1	1.9	-3.9	0	0.2
7th	4.4	-1.8	10.2	-8.4	-1.7	-3.8	26.4	-10	18.4	-8.8	-2.2	-8.1
8th	-9.6	-19.9	-96.4	-44.7	-8.1	-16.1	-106.9	-60.7	-94.4	-55.1	-47.3	-36.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1332.5	-422.1	0	-4811.3	0	-502						
RMS	738	34.3	0	1886	0	31.3						
1/2 P-P	1511.5	61.9	0	2978.4	0	63.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	471.9	-636.7	-20.6	34.9	0	1194.6	2367	-20.1	-29.4	-7.2	10.1	
2nd	118.2	-38.9	-19.6	-8.3	0	-185.7	-56.5	18.1	10.9	-4.3	-1.2	
3rd	114	123.5	10.6	9.8	0	-19.8	91.5	13.4	-4.3	-0.9	0.1	
4th	476.5	-393.5	-2.4	0	0	-0.6	10.7	0	1	0.7	-0.3	
5th	75.9	124	0.3	3.1	0	45.2	-39.7	-4.1	0.2	0.3	-0.2	
6th	5.1	3.6	0.2	-0.3	0	10	6.9	-0.5	0.6	0.3	-0.7	
7th	-17.8	6.4	0	-0.4	0	15.9	-22.8	-1	0	0.8	-0.1	
8th	41.8	24.8	0.3	1.9	0	-97.9	-64	-0.1	2.3	0.2	-1.4	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	564.5	699.3	579.5	640.1	556.1	345.5				
RMS	175.9	114.9	75.6	117.6	137.4	313.2				
1/2 P-P	328.6	219.1	160	248.4	278.2	547.8				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	SINE		COSINE		SINE		COSINE		SINE	
1st	-142.1	-64.2	-112.2	-50.9	-68.3	-94.4	-91.3	-102.2	-108.3	-310.3
2nd	-32.4	18.9	-24.5	12.7	5.9	-41.8	7.6	-44.1	7.4	-119.7
3rd	166.3	-68.1	90.6	-34.9	-5.9	-69.3	19.9	-93.4	30.8	-197.8
4th	46.9	7.2	26	3.2	-4	-19.1	-7.3	-27.1	-8.7	-33.8
5th	-0.3	-24.4	-2	-8.1	12.6	-10.3	32.8	-9.9	37.9	7
6th	10.6	-7.6	4.5	-3	2.2	-13.2	6.5	-14.4	7.6	8.2
7th	2	6.5	-0.1	4.5	1.8	-3.7	-2.6	-5.1	-3.8	2
8th	11.2	-9.5	0.7	-3	5.3	-26.1	10.2	-23.4	9.8	31.5
										-2.4
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	181.5	-60.8	-434.8	-4467.1	-2634.9	-440.8				
RMS	485	558.8	457	2393.6	730.9	25.9				
1/2 P-P	842.7	996	773.3	3661	1458.9	56				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	SINE		COSINE		SINE		COSINE		SINE	
1st	-529.5	-192.4	-533.4	-144.8	6.1	-2866.2	1765.3	-154.3	587.2	19
2nd	-350.2	-30.8	-534.9	-23	-37.9	224.3	147.8	155.4	-63.8	-16
3rd	-124.2	74.2	-56.4	63.7	33.4	110.3	33.8	-199.7	-131	-13.7
4th	43.8	15.1	125.6	25	30.2	-80.7	18.7	672.4	-314.3	4.6
5th	25.6	-64.8	5.1	-70.5	-34.4	20.1	72.5	-26.8	-159.1	0.8
6th	27.7	-7.6	20	-5.7	-5	-1.7	-6.6	0.7	11	0
7th	3.4	7.6	-2.7	-1.3	-13.2	-27	-3.9	37.4	10.7	-0.4
8th	-9.9	3.7	-35.9	18	17.4	-35.8	-85.3	34.5	86	-0.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
18/12												
MEAN	461.6		-2431		567.4		-2707		82.4		254.8	
RMS	187		2529.3		171.4		2470.9		2067.7		1216.2	
1/2 P-P	350.1		3860.9		301.4		3805.2		3214.6		2265.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	116.5	23.9	-1733.6	-3109.1	30.4	96.9	2915	-1895.4	2451.4	-1567.1	1211.8	-1071.3
2nd	25.5	-33	-219.7	-128.9	-34.7	24.8	190.9	171.2	161.7	134.6	150.2	39.2
3rd	-95.3	-197.4	29	-118.8	-190	76.9	-103	-27.9	-75.7	-4.7	48.4	94.6
4th	57.2	9.6	-64.1	50.8	50.7	16.5	-7.1	25.9	73	-42.5	421	-321.1
5th	33.8	-16.7	-63	53.4	9.4	24.6	-32.7	-87.1	-12.6	-51.6	46.4	108.4
6th	-15.9	7.7	16.7	-5.1	15.1	-4.3	-3.8	10.8	-0.5	6.5	-4.1	-6.7
7th	7.8	0	-25.9	17.4	-3.1	-8.5	-10.5	38.7	-11.9	26.9	-17.4	-5.1
8th	3.6	-17.6	-37.6	-83.6	-1.9	-11.5	-45.8	-86.3	-36.1	-81.4	-13.9	-55.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
18/12												
MEAN	-1256.7		-431.5		0		-4123		-516.9		-83	
RMS	911.6		30.8		0		2460.4		30.9		11.6	
1/2 P-P	1829.6		58		0		3804.5		58.3		23.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	552.9	-829	-20.6	29.7	0	0	1621.2	3060.2	-15.1	-33.3	-10.4	11.5
2nd	127.1	-32	-16.4	-6.7	0	0	-215.2	-127	15.5	9.6	-3.9	0.1
3rd	152	130.8	12	9.4	0	0	-28.7	115.7	12.3	-5.3	-0.2	-0.5
4th	559.8	-493.5	2.5	1.1	0	0	9.2	-5.7	4.2	1.8	1.4	-0.3
5th	79.7	184.1	0.9	2.2	0	0	77.2	-33	-2.8	0.6	0.3	-0.1
6th	8	-9.7	0.9	-0.7	0	0	19.1	10.9	-0.2	0.9	0.2	-1
7th	-8.4	-17.3	0.3	-0.4	0	0	-17.7	-3.1	-0.6	-0.2	0.8	0.1
8th	17	31.6	-0.2	1.7	0	0	-41.3	-91.8	-0.5	2.4	0.4	-0.9

MEAN	2022.2	1605.8	948.5	806.9	690.8	519.7
RMS	262.8	172.2	88.5	129.2	150.9	360.8
1/2 P-P	479.5	296.5	188.7	271.2	294.2	636.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-280	74.4	-203	36.8	-105.8	-37.6	-114.5	-86.9	-118.5	-111.2	-369.9
2nd	-57.5	52.3	-40.4	32.2	-37.8	13.2	-44.2	6.5	-45	4.7	-125.3
3rd	194.5	-59.5	106.7	-30	0.4	-7	-73.1	15.1	-99.8	24.3	-218
4th	60.3	8.4	34.2	4.4	7.5	-3.6	-19.7	-8.2	-29.4	-9.3	-47.3
5th	-15.1	-40.8	-7.2	-14.1	-2	20.4	4.7	51.3	9.3	60.4	8.7
6th	19.7	-6.2	8.3	-2	-7.9	0.7	-22.1	3	-24.6	4.6	11.6
7th	0.6	7.2	-0.6	5	-1	1.5	-2.1	-4	-2.6	-4.7	0.7
8th	6.7	-2.4	-0.7	-1.3	-9.9	-0.6	-15.6	-1.1	-14.1	1.6	15

Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
18/13					

MEAN	326.2	33.9	-534.3	-2665.9	-2544.7	-448.2
RMS	586.6	684.7	533.7	3351.2	974.7	30
1/2 P-P	1019.8	1265.3	956.9	5109.3	1834.5	70.1

[illegible]

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
18/13												
MEAN	1919.4		-734.5		2053		-1434.9		1232.1		687.2	
RMS	207.5		3489.9		208.8		3482.1		2926.2		1683.4	
1/2 P-P	403.3		5304.7		412.2		5342.9		4488.1		3008.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	-35.1	-104.1	-2403.1	-4287.8	139.3	-23.4	4134.3	-2635.7	3489.1	-2190.5	1709.8	-1477.2
2nd	44.6	-61.7	-332.1	-113.5	-65.4	59.2	362	134.9	313.3	103.4	253.9	7.4
3rd	-97.1	-218.4	76.1	-146.4	-217	67.2	-121.1	-86.9	-85.1	-47.7	60.9	98.3
4th	77	12.1	-84.8	51.6	61.8	13.7	-23.5	24.7	89.5	-44.3	573.9	-347
5th	44.6	-36.4	-52.5	82	24.8	45.4	-56.1	-55.1	-22.2	-20.5	72.1	137.1
6th	-27	8.8	26.2	-22.5	20.9	-2.1	-8.6	9	-4.6	5	3.8	-4.9
7th	7.1	5.4	-16.3	21.6	1.6	-8.7	-12.3	24	-13.8	18.7	-9.4	-6.2
8th	-2.4	-15.5	-64	-52.5	-7.3	-1.9	-72.9	-59.2	-61.1	-60.3	-29	-43.3

RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
18/13												
MEAN	-1125		-438.1		0		-2530.4		-533.3		-59.2	
RMS	1215		30.2		0		3404.3		33.5		21.9	
1/2 P-P	2409.2		69.3		0		5214.3		66.3		38.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	772.5	-1141.5	-22.4	24.2	0	0	2267.9	4224.9	-12.5	-39.9	-22.3	20.6
2nd	207.2	-67.2	-1.7	3	0	0	-326.9	-137.7	0.2	-0.7	-1.7	2.3
3rd	190.8	157.7	18	10.3	0	0	-68.5	124.2	11.1	-8.3	0.4	-0.6
4th	759.8	-539.5	11.4	10.7	0	0	-12.7	14.7	13.2	7.8	4.1	1.8
5th	132.1	210.8	-1.2	2	0	0	66.4	-71.6	-2.2	0.6	1.1	-0.8
6th	25.6	-10.1	0	-2.6	0	0	26	-6.1	-0.2	2.4	0.1	-1.4
7th	-7.3	-20.5	1.2	-0.5	0	0	-6.9	12.6	-0.6	-1.2	0.5	-0.2
8th	30.4	18.3	0.3	1.1	0	0	-70.5	-61.9	0.3	1.5	0.1	-0.4

RUN/POINT 18/14	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3223.5	-89.9	581.6	-92.1	354.7	-46.8	93.7	-87.8	-37.1	-94.3	-75.9	-178.2
RMS	520.8	-109.9	287.9	-76.9	173.6	-51.7	54.7	-48.6	0.4	-44.7	-21.1	-130.8
1/2 P-P	1126.1	46.4	-22	24.5	-9.6	-14.2	-2.6	-33.2	11.6	-37.9	14.2	26.9
		61.6	13.1	34.4	9.5	0	3.7	-28.3	-2.2	-39.5	-5.1	-32.6
		-67.9	38.7	-28.1	19	21.6	0.8	69	-16.8	82.6	-27.1	5.2
		27.5	16.6	9	7.8	-11.5	-4.3	-32.6	-17.7	-36.6	-21.3	10.8
		6.1	-0.3	3.1	1	-0.1	-1	-4.3	-2.8	-7.6	-2.3	4.2
		15.5	-7.5	-2	-4.8	-27.5	-1.3	-44.6	1.5	-40.3	3.7	9.3
RUN/POINT 18/14	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	353.4	-638	-137.8	-673.4	-102.9	-181.6	-50	-4643.2	2921.6	-351.5	893.9	46.7
RMS	587.6	-408.6	-179.8	-636	-167.8	-723.4	-103.1	496.5	-284.4	256.7	-92.3	-100.9
1/2 P-P	1197.9	81.3	26.8	128.4	18.2	76.8	20.8	100.4	-8.7	-164.3	-127.2	-46.6
		83.4	1.4	196.8	25.1	276.3	60.9	-49.1	40	614.4	-105.7	48.9
		-137.8	43.3	-159.6	69	-94	24.5	90.2	-20.5	-224.2	12.9	14.4
		57.8	34.5	19.9	14.8	-66.7	-17.2	-40.5	-20.6	40	13.7	14.5
		14.1	4	11.2	4.1	1	12.9	-19.6	4.5	18.1	-1.9	-9.2
		-18.8	-7.5	-57.2	8.9	-35.4	33.3	-34.4	-128.3	50.1	133.8	0.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-638		-137.8		-181.6		-50		-351.5		893.9	
2nd	-408.6		-179.8		-723.4		-103.1		256.7		-92.3	
3rd	81.3		26.8		76.8		20.8		-164.3		-127.2	
4th	83.4		1.4		276.3		60.9		614.4		-105.7	
5th	-137.8		43.3		-94		24.5		-224.2		12.9	
6th	57.8		34.5		-66.7		-17.2		40		13.7	
7th	14.1		4		1		12.9		18.1		-1.9	
8th	-18.8		-7.5		-35.4		33.3		50.1		133.8	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
18/14												
MEAN	3649	1389.2	3612.3	376.3	2866.3	1433.6						
RMS	451.4	6218	300.9	5349.4	4502.2	2620.7						
1/2 P-P	1070.5	9600.7	693.1	8075.6		4104.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	463.5	165.3	-5553.9	-6761.1	23.1	176.4	5330.4	-5313.4	4532	-4426.3	2277	-2808.2
2nd	260.7	-187	-685	-58.8	-251.9	231.5	645.4	-101	543.5	-72.3	382.6	-82.1
3rd	-132.2	-104.1	65.9	-137.9	-76.4	62.4	-103.6	-8.6	-68.6	7.8	39.2	59
4th	94.3	34.4	-101.2	8.9	66.1	20.4	-46.9	28.9	78.1	23.1	604.6	18.1
5th	62.8	-36.8	-35.7	78.2	66.8	7.2	-79.8	-35.7	-30.6	-21.3	173.2	66.4
6th	-25.2	-1.1	37.5	12.6	22.5	1.3	-11.9	-10.9	-6.2	-8.3	11.7	5.1
7th	4.1	-4.1	17.3	-20.8	-8	-12.7	-3.7	-35	-2.6	-31.4	-16.4	-6.3
8th	-2.9	-21.4	-42.2	-123.5	10	-11	-54.8	-121.6	-44.5	-111.6	-25.4	-68.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
18/14												
MEAN	-739.1	-461.6	0	-791.7	-547.8	-51.6						
RMS	1791.3	117	0	6029.3	103.2	43						
1/2 P-P	3339.8	375.5	0	9156.4	274.1	114.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1082.4	-2028.3	-88.6	1.7	0	5093.3	6785.3	-1	-92.2	-2.7	49.2	
2nd	286	-98.6	66.9	-32.6	0	-667.6	-30.8	-56.5	13.2	4.4	-12.3	
3rd	136.6	68.4	76.7	48.9	0	-66.1	111.4	35.5	-57.4	-14.8	-11.4	
4th	853.9	-35	-29.3	33.5	0	-16.6	32.5	-39.9	33.4	-5.7	7.8	
5th	283.1	93	2	-18.6	0	-7.7	-52.2	30.5	-3.8	-5	-0.8	
6th	19.9	19.9	4.9	-2.2	0	48.1	-0.1	-12.7	5.7	2.9	3.7	
7th	-1.7	29.3	-3.8	-1.9	0	-2.5	-12.2	4.5	-2.6	0.6	-2.2	
8th	14.9	44.7	2.2	-1.8	0	-18.8	-135	-3.8	5.9	-0.4	-2.1	

MEAN	-3709.7	-1977.4	-552.7	24.4	84.2	-317.3
RMS	497.2	297.5	115.3	117.7	137.5	307.5
1/2 P-P	908.3	555.9	247.6	276.2	326	661

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-81.3	-230	-47.3	-160.8	-17.8	-105.2	8.6	-104.1	25.3	-107.3	216	-153.4
2nd	607.5	-188.5	359.6	-103.6	95.8	-35.3	-62.5	11.4	-108	29.1	-303	75
3rd	-148.9	53.6	-85	27.1	-14.6	4.7	33.3	-6.3	51.6	-7.3	115.5	7.6
4th	8.1	-17.4	3	-9.2	-5.3	1.7	-13.1	10	-16.9	13.7	-11.6	8.1
5th	41.2	19.5	17.9	8.5	-8.3	-7.6	-31.1	-21.7	-39.8	-22.6	-8.3	-2.5
6th	-2.6	12	0	4.9	4.5	-4.4	8	-11.2	6.6	-12.7	-3.4	3.8
7th	-6.6	6.8	0.4	2	11.6	-4.6	18.1	-9.3	16.7	-8.4	-21.8	4.3
8th	32.6	-27.7	5	-2.3	-35.1	28.1	-63.6	50	-58.3	51.1	86.7	-38.9

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$

MEAN	-418.5	-452.3	-150.7	-8878.3	-2758.3	-308.5
RMS	338.8	295.3	160.8	460.9	195.9	77.1
/2 P-P	604.4	645.9	391.1	995.9	475.7	142.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	323.5	-154.9	295.1	-128.5	84.5	-42.5	322.9	-318	-92.9	-20.5	43.4	-83.9
2nd	-266.5	121	-166.2	118.6	35.7	48.5	-410.6	130.2	37.6	-34.4	-44.1	-10
3rd	57.8	22.3	8.7	37	-33.7	62.5	56.3	-33.4	-6.8	20.3	16.7	4.1
4th	2.8	-20.9	5.2	-29.5	-18.6	-30	21.1	-11	-119.7	69.2	-7.3	21.4
5th	73.3	41.7	88	54.1	68.5	45.6	-63.2	-21	129	50.3	1.4	1.9
6th	0.8	7.9	-1.2	3.1	-7.4	3.4	7.8	-3.4	-10.9	9.3	1.9	-1.2
7th	4.7	0.8	20.6	-16	14.8	-22.3	0.1	-38.9	4.7	35.5	3.7	-1.6
8th	-20.1	15.7	-85.1	68.9	-89	69	9.2	-34.4	0.4	30.7	-0.7	2.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3792.2		-6455.1		-3763.6		-7028.7		-3794.7		-1408.4	
RMS	490.1		451.1		514.5		465.8		379.5		183.4	
1/2 P-P	868.9		1005		933.1		1038.5		831.2		408.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	289.9	111.6	393.1	269.1	-194.8	294.4	-123.8	429.4	-113.1	381.7	14	175.1
2nd	-563	188.3	358.1	-145.3	588.8	-167.4	-415.2	158.6	-309.9	111.7	-122.8	51.1
3rd	65	140.9	-35.1	-31.6	142.5	-50.1	-51.4	42.1	-35.9	25.9	-5	-6.6
4th	6.7	-16.4	17.9	17.6	8.5	-9.9	-20.8	24.8	-19.7	15.2	-26.7	-22.7
5th	-7	54.2	12.4	-64	-51.1	-0.5	68.2	9.5	32.9	8.3	-100.8	-10.6
6th	-3	-12.9	6.1	11.6	0.9	18.5	-6.9	-7.1	-5.4	-3.3	-5.1	20.6
7th	10	8.5	1.5	-29.4	8.2	-9.2	17	-31.6	13.6	-24.1	-6.8	-6.7
8th	15	-53.4	6.5	-30.9	27.8	-49.6	5.8	-36.6	2.9	-30	-0.2	-8.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1816.5		-303.2		-3592.9		-8102.1		-350.9		-42.2	
RMS	172		88.7		493.2		468.1		75		5.9	
1/2 P-P	412.6		154.3		885.6		1028.8		134.9		16.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	82.3	85.1	-47.7	100.8	-231.2	-36.5	-374.1	-212.3	-85	-46.5	-1.7	-0.3
2nd	-15.7	8.6	-47.6	-10.8	-606.4	181.4	451.6	-113.1	36.6	11.9	0.7	-3.2
3rd	21	-11.9	-18.9	-0.8	-68.4	-140.7	39.4	48.1	-1.9	6	-0.3	3.7
4th	-24.6	-33.2	-8.6	19.7	5.3	-8.6	-12.8	-6.3	-6.8	15.1	-2.9	3.6
5th	-172.8	-4.9	2	-2.2	1.3	-50.4	-28.8	81	-0.6	0.3	-1.6	0.7
6th	9.2	24.2	1.5	-0.6	-1.2	-14.9	3.3	29.6	-2	0.4	0.4	-0.6
7th	-11.4	15.1	-3.4	2.2	-10.1	-4.2	12.9	-36.8	1.2	2.1	0.4	0.3
8th	-3.7	26.4	-0.2	4.3	13.8	-53.7	7.1	-40.1	-0.9	5.1	-0.4	0.3

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
28/21						
MEAN	-2517.2	-1237.8	-250.1	142.2	176.7	-217.5
RMS	409.4	247	104.2	120	139.3	274.9
1/2 P-P	684.1	425.1	207.3	284.4	319	557.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-158.6	-195.1	-104	-106.2	-22.1	-123.1
2nd	507.7	-89	295.7	-47.5	4	91.5
3rd	17.8	-13.5	7.6	-19.5	-116.5	14.4
4th	29.8	-1.4	15.2	-3.1	7.7	15.4
5th	29.9	52.2	12.1	-2.7	-27.5	46.2
6th	0.1	9.2	1.4	-18.2	-27.7	2.5
7th	-3.6	-1.8	0.8	-3.3	3.9	-58.4
8th	3.7	25.3	2.3	5.3	10.3	-7.2
			1.1	-24.5	-2.6	-11.7
						-41.1
						-11.1
						49
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
28/21						
MEAN	-387.1	-491	-313.7	-8642.8	-2745.1	-353.3
RMS	316.3	290.2	174	373.5	280.6	73.1
1/2 P-P	554.6	622.9	390	787.9	769.9	134.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	151.3	-175.8	140.8	-136.5	-166.2	39
2nd	-328.8	76.7	-267.6	78.2	117.1	-43
3rd	-91.8	83.6	-116.3	99.6	-43.6	8.3
4th	10.7	4.8	20	9	128.7	-18.4
5th	65.4	98.6	77.2	115.9	91.8	9.7
6th	15.2	-4.3	24.1	-15.3	-3.6	6.4
7th	8.6	-2.8	30.9	6.8	-19.6	2.4
8th	3.4	-17.7	0.4	-63.7	-30.2	-0.3
			0.1	-65.6		0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
28/21												
MEAN	-2580.4		-6207.5		-2541.1		-6821.7		-3550.1		-1359.2	
RMS	392.7		418.6		406.1		523.2		427.4		288.4	
1/2 P-P	671.5		874.3		728.6		1077.1		866.3		632.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	256.1		34.9		-344.1		258.1		444.7		274.1	
2nd	-476.6		84.3		-111.7		-65.3		-255.6		77.9	
3rd	-8		-16.7		-44.2		19		-39.9		15.3	
4th	24.5		-5.5		31.2		-3.5		15.9		-25	
5th	-47.3		43.3		-49.3		-35.5		32.6		24.8	
6th	0.8		-9.3		16.7		7.4		4		-7.1	
7th	-3.3		6.4		-8.1		3.2		25.5		-4.7	
8th	13		33.3		27.3		15		22.4		24	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/21												
MEAN	-1822.5		-345.8		-2407.4		-7904		-405.1		-44	
RMS	320.3		83.7		396.3		467.1		71.8		7	
1/2 P-P	797.5		146.9		650.8		954.3		127.3		17.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	235.8		13.8		95.3		29.1		-79		-44	
2nd	61		-38.2		-16.5		83.6		35.9		15.3	
3rd	36.8		22.5		-13.8		15.3		-10.7		1.1	
4th	213.1		-206.6		7.3		1.3		-17.8		2.3	
5th	-172.3		-102		2.7		-51.3		-3.1		-8.1	
6th	-14		22.7		-1.1		-9.2		-5.2		-0.7	
7th	-20.2		-1.3		-2.3		-3.8		-2.6		1.4	
8th	-10.2		-12.5		0.7		22.8		-2.8		-0.8	

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$
28/22						
MEAN	-1314.8	-491.7	57.6	271.8	283.3	-101
RMS	373.6	225.5	102.3	145.1	174.3	320
1/2 P-P	639.7	416.2	216.6	351.4	431	699.4
HARMONIC						
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-292.1	-32.3	-194.8	-44	-94.8	-71
2nd	366.4	-44.8	210.7	-23.3	38.1	-11.8
3rd	196.2	-74.1	107	-39.7	-1.1	-11.9
4th	75.4	7.8	40.3	3.4	-1.8	-8.5
5th	20.6	72.1	6.8	29.3	-5.3	-24.3
6th	6.6	-5.2	3.6	-1.3	0.2	2.3
7th	10.7	-6.5	1.8	-1.2	-11.3	4.2
8th	-1.6	6.7	4	3.9	11.6	-0.4

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb					
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$					
28/22											
MEAN	-342.4	-533.4	-487.9	-8095.6	-2722	-397.8					
RMS	393.8	386.7	291.9	869.5	793.7	69.5					
1/2 P-P	825.6	886.1	855.8	1388.6	1696.2	128.1					
HARMONIC											
1st	COSINE -14.5	COSINE 7.3	SINE -177.5	COSINE 28.6	SINE -51.5	COSINE -1186.3	SINE 72	COSINE -250.3	SINE 126.5	COSINE 41.7	SINE -70.7
2nd	-366.3	-350.2	56.7	-189.2	24.5	-221.2	86.8	190.8	-98.4	-40.8	-10.7
3rd	-246.8	-243.1	173	-221.9	147.7	82.7	20.6	-135.7	-88.7	-16.6	9.1
4th	44	74.9	22.4	60.5	37.8	-73.4	47.2	823.7	-612	-16.3	-13.4
5th	68.4	98.3	156.4	92.9	99.7	-10.8	-77.6	15.7	160.9	12.7	6
6th	48.6	69.6	-32.1	70.7	-29	24.1	-4.1	-42.1	16.4	6.3	2.6
7th	18.3	-14.3	3.7	-29.4	14.8	4.4	10.7	1.7	-15	-0.5	-1.1
8th	5.6	4.6	6.6	-25.7	21.2	-34	35.7	35.1	-34.6	-0.9	-0.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
28/22												
MEAN	-1362.4		-5656.8		-1304.7		-6297.9		-3054.5		-1189.1	
RMS	305.1		936.4		304.9		1085.7		911.9		687.5	
1/2 P-P	613.7		1538.9		635.5		1722.9		1408		1433.2	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	96.9	-74.1	56.2	-1287.1	35	92.1	1506.7	61.3	1264.2	78.6	716.4
	2nd	-337.8	42.2	203.9	-91.5	339	-38.6	-186.7	118	-111.9	82.6	99.5
	3rd	-82.3	-192.2	15.5	-91.3	-202.3	82.3	-77.4	-3.6	-65.4	8.7	11.1
	4th	71.4	-4.3	-90.7	34.7	77.2	-6	25.5	-0.1	114.2	-70.6	490.6
	5th	-64.3	32.2	66.7	-3.2	-40.9	-52.8	39.2	56.7	19.8	29.4	-44.5
	6th	-9.2	9	3.4	-7.4	8.9	-7.3	5.8	2.7	-2.2	1.1	-30.1
	7th	-11.4	-10.7	-9.9	16.2	-13.7	8	-10.3	17.5	-9.5	9	-5.3
	8th	-0.3	13.7	-24.9	40.9	-6.6	12.1	-26	47.2	-24.2	39.3	-0.1
33.1												
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/22												
MEAN	-1795.9		-389.4		-1213.2		-7406.7		-459.2		-45.4	
RMS	721.4		79.5		331.7		993.7		71.1		8.7	
1/2 P-P	1581.9		144		629.3		1631.2		134.5		20.5	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	452.1	-93.7	-46.5	87.7	-37.8	122.2	-108.2	1361.4	-70.8	-49.6	-2.1
	2nd	186.2	-73.9	-38.5	-11.1	-373.2	47.6	250.2	-97.2	35.1	11.9	-1.3
	3rd	92.1	99.8	13.6	-11.6	84.3	201.5	-20.2	81	-6.7	-18.5	5.5
	4th	621.2	-587.5	-23.4	-6.5	81.4	6.8	-29.9	47.6	-21.8	-11	-1.7
	5th	-94.6	-122.4	-11.3	-0.8	63.8	-43.4	-83.2	6.5	1.7	-12	2.7
	6th	-20.3	2.2	5.9	2.8	-4.6	0.6	0	6.2	-5.1	-3.3	0.2
	7th	8.7	-10.8	1.6	0	10.5	17.1	3	8.8	1.8	-1.2	-0.2
	8th	27	-19.2	-2.2	-2.4	-2.8	22.9	-37.3	39.1	-1	-3.8	0.5
-1.2												

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	-658.5	-86.5	219.5	336.4	333.1	-32.4				
RMS	376.8	228.6	118.8	179.5	210.6	371.4				
1/2 P-P	646	430.2	229.9	421.6	502	831				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-276.8	-112.7	-91.7	-94.7	-79.1	-123.1	-76.3	-133.1	-77.7	-241.9
2nd	310.6	-20.7	-11.7	-11.1	-86.4	-6.3	-120.8	-0.6	-305	-11.6
3rd	247.2	-119.7	-64.4	-15.8	-109.7	28.7	-146.2	53.7	-305.5	119.6
4th	97.7	7.6	2.5	-13.1	-46.3	-19.3	-62.7	-11.5	-61.6	2.6
5th	-3.4	98.7	-2.5	-31.9	11.9	-96.8	10	-115.2	-0.2	-2.5
6th	13.4	-9.7	-3.1	3	-12.7	8.9	-18.4	14	5.4	-5.1
7th	25.9	-4.7	-2.1	-3.4	-44.7	-1.6	-44.8	4.8	45.9	7.2
8th	-13.3	26	9.6	-14.6	39.1	-34.2	33.5	-33.8	-59.2	18.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-328.4	-559.3	-577.2	-7576.8	-2677.8	-418.7				
RMS	458	461.2	360.3	1560.6	1152.3	67.3				
1/2 P-P	1009.9	1077.7	980.3	2447	2278.1	134				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-88	-243.6	-189.4	-51.5	-2109.1	549.1	-365.9	238.8	43.8	-63.3
2nd	-396.5	28.2	32.6	13.9	-141.9	126.2	266.3	-104.4	-39	-9
3rd	-311.1	192.2	207.9	168.3	126.9	34.4	-210.1	-142.2	-24.5	9.7
4th	50.4	27	32.6	45.4	-92.1	75.7	1188.9	-896.8	-12.1	-17.2
5th	20.4	195.1	226.5	150.5	34.5	-110.3	-97.3	214.7	9.6	9.5
6th	71.2	-31.4	-46.2	-35.1	5	2.6	-31	1.8	5.6	-0.5
7th	28	-18.8	-17.6	-7.2	40	-9.9	-31.6	5.3	-0.9	-3.9
8th	15.2	-9.4	-39.6	-31.3	-49.1	133	46.6	-127.4	0.3	-1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
28/23												
MEAN	-688.7		-5268.6		-622.9		-5780.7		-2602.5		-1010.7	
RMS	322.7		1570.3		323.9		1747.6		1463.5		1066.4	
1/2 P-P	662.4		2415.7		695.2		2623.4		2203.4		2118.3	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	175.7	-45.5	-401.5	-2153	26.9	170.9	2415.6	-414.3	2023.5	-305.2	1119	-267.5
3rd	-287.2	12.7	151.5	-138.4	284	-11.1	-112.5	145.9	-50.6	107.8	161.8	-4.1
4th	-124.6	-239.9	15.2	-135.8	-251	121.6	-121	-2.6	-97.3	16.4	24.4	112.1
5th	92	0.8	-142.8	66.5	99.6	-1.4	28.2	-2.7	164.1	-102.7	745.8	-562.3
6th	-86	9.6	91.8	40	-16.8	-88.2	-1.6	91.9	-0.4	44.1	28	-129.5
7th	-14.2	12	10.7	-4.7	10.8	-11.8	0.3	8.6	-10	3.7	-44	0.4
8th	-9.7	-21.9	30.6	-16.5	-25.1	4.8	17.2	-19.6	15.8	-21	0.2	-19.1
	-13.3	38.1	-29.3	135.8	-20.9	20.2	-31.7	146.3	-33.5	128.1	5.4	84.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
28/23	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1729.4		-409		-548.8		-7083.5		-485		-44.6	
RMS	1074.7		76.1		338.4		1665.8		68.8		9.6	
1/2 P-P	2188.9		144.7		698.1		2533.1		139.5		24	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	664.9	-263.1	-49.4	79.6	-112.8	86.6	334.9	2305.6	-62.2	-52.3	-2.5	8.2
3rd	250.3	-80.4	-35.5	-9.9	-318.8	17.9	176	-131.1	33.7	12.4	-3.2	-0.9
4th	142.9	160.7	20.4	-13	134.6	250.5	-27	124.8	-6.3	-24.5	-3.5	5.3
5th	959.7	-834.7	-20.9	-9	102.1	7.1	-30.1	51.9	-18.8	-14	-0.5	-5.1
6th	17.6	-209	-10.8	-3.8	99.7	-27.7	-122.6	-33.5	4.9	-12.8	3.4	2.9
7th	-36.5	-4.8	4.6	0.4	-11.1	6.4	-4.9	-6.6	-4.5	-1.2	0.2	0.3
8th	-1.8	9.5	1.1	2.7	10	28.5	23.1	-10.5	4.5	-2.1	0.3	-0.4
	34.4	-43.5	-0.9	-1.5	-12	48.8	-50.8	128.4	0	-3.7	0.1	-0.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-59		-4895.1		28.5		-5492.9		-2327.9		-917.3	
RMS	335.9		2266		338.8		2472		2073.5		1529.6	
1/2 P-P	741.7		3431.9		748.8		3586.4		3073.3		3023.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	158.9	-27.6	-821.8	-3068.8	30.2	144.5	3367.9	-867.6	2826.1	-674.7	1542.9	-503.1
2nd	-217.3	15.4	61.9	-203.2	210.2	-11.3	-23.7	209.5	27.3	163.1	234	29
3rd	-156.8	-313.7	13.6	-187.2	-330.1	145.3	-174.1	-7.8	-133.1	18.8	52.2	163.4
4th	114.6	-9.3	-194.2	103.6	127	-5.3	48.2	14.5	241.8	-144.1	1079.9	-862.3
5th	-106.1	9.4	91.4	50.8	-15.6	-114.1	5	94.1	6	45.1	36.5	-152.1
6th	-20.8	12.4	19.5	-8.5	14.7	-8.3	5.3	7.4	-11.8	5	-59.9	-7.6
7th	-15.8	-33.2	10.9	-46.1	-37	8.2	-28.5	-47.9	-18.4	-46.1	-6.2	-36.6
8th	3	32.2	2.6	113.8	-14	18.1	-8.9	122	-12	109.3	24.4	82.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1707.9		-426.8		78.8		-6790.6		-509.4		-43.4	
RMS	1560.4		75.2		352.2		2386.9		70.2		11.6	
1/2 P-P	3050.8		154.5		774.9		3467.8		148.8		27.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	899.7	-435.8	-56.9	69.7	-95.6	56.4	758.8	3268.7	-52.3	-59.1	-4	11.1
2nd	327.8	-75.3	-33.1	-7.3	-247.9	14	96.7	-192.8	34	11.7	-3.9	-0.5
3rd	215.2	231.5	27.3	-13.5	160.3	327.9	-29.7	176.1	-7.7	-30	-3.8	4.2
4th	1380.9	-1292.5	-20.2	-13.5	129	0.8	-39.9	75.9	-18.8	-18.5	0.3	-5.7
5th	18.5	-229.8	-15.9	-5	129.2	-38	-118.3	-22.3	5.9	-18.1	5.2	2.2
6th	-54.5	-17.8	4.5	-1.3	-12.2	9.6	-18.2	6.3	-4.9	1.5	0.4	-0.1
7th	25.8	18.7	2.9	5.7	17.5	42.2	-12.3	-14.2	7	-2.9	-0.2	-1.6
8th	31.5	-28.3	-3.9	-0.9	-3.3	40.6	-31.9	113.2	-1.8	-3.1	-0.7	-1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1273.1		1115.5		713.6		549.3		502.9		140.6	
RMS	461.3		272.1		180		297.4		329.4		555.2	
1/2 P-P	846.9		520.9		421.9		736.6		773		1125.6	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-296.3	-45	-218.9	-47.4	-105.3	-91	-109.9	-140.1	-111.3	-156.6	-211	-305.4
2nd	80.7	57.9	37.4	29.5	-28.4	-4.1	-94.9	-18.3	-122	-19.6	-307	-61.9
3rd	469.6	-198.5	255.3	-101	-6.9	-15.3	-199.8	56.6	-262	97.1	-559.5	164.6
4th	187.7	13.5	105.4	2.5	10	-27.1	-78.7	-41.3	-115	-35	-119.4	-6.9
5th	-67.5	121.9	-26.3	45.7	42	-46.2	97.8	-128.4	104.6	-149.2	-17.2	2
6th	48.1	-29.9	17.2	-14	-27.8	2.1	-60.1	18.5	-68.9	30.7	38.6	6.2
7th	64.9	-12.8	11	-8.9	-64.4	-16.1	-131.2	-16.1	-129.7	-2.7	138	40.1
8th	-13.1	-25.6	-4.7	0.5	9.1	40.5	16.1	61.6	11.5	57.6	6.1	-76.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-272.8		-626.1		-829.4		-6267		-2581.1		-463.9	
RMS	701.3		726.5		638.5		3826.8		2615.8		68.3	
1/2 P-P	1618.5		1694.8		1688.1		5775.1		4948.8		167.9	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-275.1	-325.9	-209.4	-278.5	-26.1	-97.6	-4979.3	2037.2	-671.8	657.3	58.8	-36.9
2nd	-495.4	-35.7	-571.4	-31.3	-430.2	-24	158.4	238.5	509.9	-152.5	-18.4	0.8
3rd	-575.4	262.8	-551.9	283.8	-467.5	216.5	345.5	75.4	-505.8	-433	-45.4	18.1
4th	93	61.3	164.6	75.2	102.8	78.3	-159.7	128.9	2945.9	-1777.9	13.1	-7.7
5th	-117.2	245.9	-45.1	270.7	55.5	176.5	90.5	-52.5	-321.3	86.4	21.7	5.2
6th	153.7	-54.7	159.3	-84.1	183	-64	14.3	-9.6	-89.9	15.5	9.2	-10.2
7th	36.7	-25.6	-149.1	-21.1	-235.5	-8.4	62.9	24.4	-42.8	-18.2	-0.5	-10.8
8th	-6.4	25.8	-23.6	104.3	-127.4	127.4	-241.4	6.4	260.7	-15	-2.3	7.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
28/25												
MEAN	1266.2		-4026.8		1386.7		-4623.1		-1526.8		-609.6	
RMS	418.5		3785.2		439.4		3923.3		3301.5		2443.5	
1/2 P-P	848.1		5600		847.4		5891.8		5237.4		5033.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	101.1	-53.7	-1760.9	-5011.7	96.8	79.6	5162.9	-1941.4	4345.5	-1559.4	2312.3	-1062.7
2nd	-80.2	-49.4	-142.4	-264.5	42.5	60.3	166.8	308.4	193.1	252.9	409.8	69.1
3rd	-226.3	-462.9	40.6	-367.9	-493.8	212.8	-348.2	-13.1	-269.5	33.7	78	302
4th	180.4	-2.4	-290	158.6	207.1	6.6	134.9	40.3	447.7	-200	1830.5	-1311.2
5th	-112.8	-53.3	46.9	137.7	57.5	-125.8	-62.1	13.7	-4.3	-7.9	241.8	-78.2
6th	-64	37.8	33	-21.3	57.2	-22.7	-13.1	27.1	-26.9	11.2	-75.6	-25.7
7th	-17.2	-66.7	17.1	-50.4	-69.1	9.3	-65.4	-18.1	-50.7	-26.9	-19	-38.4
8th	-15.7	-22.8	-222.5	10.9	-23	-29.3	-238.4	34	-206.5	19.6	-66.6	40.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
28/25												
MEAN	-1603.1		-450.1		1391.2		-5962.4		-544.8		-34.2	
RMS	2517.4		73.2		426		3882		69.2		19.7	
1/2 P-P	5143.8		169.5		849.9		5719.4		160.5		46.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1304.9	-852.8	-66.4	49.8	-24	66.5	1652.2	5207.4	-32.5	-69.9	-14.3	19.7
2nd	492.6	-66	-11.4	-0.5	-110.5	-51.9	-65.4	-274.9	22.4	6.2	-3.9	2.2
3rd	362	428.1	39.7	-27.2	226.7	457.9	-53.1	327.3	-12.8	-37	-4.5	4.8
4th	2340.9	-2004.2	-3.8	-2.5	205.2	8.3	-12.4	89	-2	-12.9	4.6	-3
5th	333.7	-115.4	-21	-0.9	160.6	24.6	-44.5	-104	5	-22.7	7.5	0.6
6th	-65.7	-54.8	7.1	-7.6	-47	21.3	10.5	12.4	-7.5	6.7	0.9	-0.9
7th	45.5	0.4	2.5	9.5	19.9	75.1	-26.2	41.6	10	-1.1	-0.3	-3.4
8th	135.1	17.4	-5.4	11.6	-35.8	3.3	-241.2	8.8	-2.3	7.4	-2	-1.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2589.9	1936	1062.2	724.8	648.7	299.7						
RMS	704.7	416.3	241.6	385.2	426.2	712.7						
1/2 P-P	1325.8	850	589.1	889.3	925.2	1445.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-474	174.1	-334.3	91	-148.6	-48.7	-141.6	-144.7	-140.1	-171.6	-284.9	-361.9
2nd	-161	85	-104.5	43.4	-67.4	5.8	-81.8	-17.3	-95.4	-25.4	-267.6	-66.6
3rd	702.5	-309.6	386.4	-161.6	-0.8	-29	-277.6	81.3	-366.1	140.6	-776.4	226.8
4th	248.5	21.8	142.3	-0.9	22.9	-47.7	-87.3	-74.3	-134	-69.2	-151.5	-2
5th	-105.2	140.5	-40	54	59.5	-51.6	141.4	-145.8	164.8	-174.5	-31.2	3.8
6th	71.3	-45.5	22.6	-21	-44.9	5.9	-95.8	30.1	-105.7	44.7	59.3	8.1
7th	74	-21.2	12.3	-16.5	-77.7	-21.5	-149.9	-16.3	-147	-1.6	174.1	49.4
8th	-59.9	-44.7	-23.3	3.2	28.2	74.6	68.6	116.4	72.5	101.9	-39.3	-148.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-220.7	-664	-973.5	-5352.5	-2539.5	-449.3						
RMS	890.1	926.2	828.9	5374.5	3961.4	97.2						
1/2 P-P	2008.6	2145	2161.9	8240.4	7331.8	229.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-360	-407.5	-295	-354.5	-54.1	-137.8	-6765.2	3323.3	-843.5	1038.3	59.3	-30.9
2nd	-514	-85.6	-634.4	-84.8	-521.3	-55.4	452.4	263.6	684.3	-184.3	31	30.6
3rd	-805.4	317.7	-791.8	328.1	-629.9	222.5	532.6	151.6	-902.9	-713	-79.7	44
4th	128.8	83.9	205.1	109.8	111.5	90.3	-267	218.4	4313.8	-2912.3	23.5	26.2
5th	-211.2	275.4	-127.6	310.5	30.9	208.6	134.8	-57.4	-466.9	42.4	36.6	-2.2
6th	185.7	-61.5	180	-79.5	230.2	-51.3	-40.6	30.1	-82.8	10.4	0.8	-12.7
7th	48.4	-33.2	-194.4	6.8	-308.7	23.7	78.4	28.7	-61	-6.9	2.3	-14.9
8th	4.3	29.7	56.1	191	-71.9	224.1	-448.3	70.4	484.1	-125.5	1.1	11

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	2602.1		-3010.6		2768.4		-3762.3		-747.8		-470.9	
RMS	636.4		5257.1		689.7		5273		4464.1		3458.4	
1/2 P-P	1210.6		7993.9		1351.9		8187.4		7438.4		7410	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-141.8	-288.6	-2814.6	-6803.4	366.3	-212.4	6680.4	-3165.6	5651.6	-2596.5	2956.8	-1722.1
2nd	72.8	-57.3	-345.9	-290.4	-147.6	60.4	461.4	349.5	439	288.4	615.1	76.1
3rd	-350.4	-658.5	102.1	-564.6	-690.6	327.2	-523.4	-56.6	-383.9	23.7	231.9	469.3
4th	242.7	-7.8	-403.8	282.9	276.2	9	227.5	93.3	647	-299.8	2512.1	-2135.4
5th	-188.8	-115.5	50.7	196.4	115.4	-214.2	-112.3	76.7	-20.9	23.6	377.9	-176.7
6th	-83.3	60	69.3	-69.7	77.8	-39.5	-52.7	72.6	-67.7	42.2	-110.5	-45.9
7th	-29.5	-80.9	24.3	-77.6	-83	18.9	-76.9	-41.2	-58.8	-45.7	-10.5	-47.5
8th	-80.6	-55.7	-439.4	107.6	-66.8	-46	-462.7	95.7	-406.4	65.6	-174	88.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1594.3		-435.2		2696.5		-4987.6		-546.7		-15.1	
RMS	3671.7		98.5		654.1		5318.9		87.4		38.5	
1/2 P-P	7206.6		207.6		1285		8097		199.8		81.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1612.8	-1354.6	-72.6	32.9	245.2	262	2611.6	7003	-14.1	-79	-36.3	34.5
2nd	682.9	-91.2	26.7	25.4	50.8	-51.4	-281.9	-332.8	-9	-16.3	-1.4	8.4
3rd	698.7	663.4	63.5	-60.2	349.8	653.6	-127.2	469.7	-34	-56.4	-8	7.7
4th	3165.2	-3244.7	1.7	29.6	281.3	1.7	32.1	136.1	13.4	18	6.3	3.3
5th	546.6	-297.9	-36.6	6.6	242.1	61.4	-52.9	-186.6	-3.9	-40.7	11.2	-0.7
6th	-94	-73.4	0.8	-7.4	-65.2	39	69	-19.9	-4	9.1	0.5	-0.5
7th	49.2	-8.4	0.8	14.7	33.9	84.2	-40.8	59.6	15.5	-0.4	-2.3	-5.4
8th	240.8	-8	-2.9	15.6	-104.5	-3.3	-441	76.4	1.9	12.9	-2.7	-2.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
22/18												
MEAN	-458.1	-4354.3	-378.6	-5012.5	-1963.9	-831.2						
RMS	411.7	1398.9	401.6	1559.7	1314.6	1128.3						
1/2 P-P	785.6	2437.4	777.1	2715.3	2377.1	2304.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	-58.9	-211.4	-1834.7	208	-71.8	2078.3	-550.2	1753.8	-442.6	933.9	-390.1	
2nd	-39.5	-40.7	-31.3	39.4	36.5	145	49.3	140.9	37.2	204.7	-37	
3rd	-240.6	-413.1	-144.4	-410.2	223.5	-122.2	-30.9	-89.1	5.1	102.6	143.6	
4th	121.3	38	75.4	132.2	38.8	18	28.5	183.6	-81.8	920	-597.8	
5th	154.7	-88.8	194.9	82	141	-233.3	-156.2	-112.3	-68.9	294.1	349.1	
6th	-57.1	13.8	13.9	50.8	-8.3	-42	-7	-31.8	-7.2	16	38.9	
7th	7.2	-16	-14	-15.2	-7	33.2	-42.1	21.8	-37.8	-25.1	-41	
8th	17	-78.8	-239.7	16.4	-57.7	-190.2	-252.7	-157.6	-237.1	-66.3	-115.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
22/18												
MEAN	-1716	-422.5	0	-6212.4	-502.7	-74.6						
RMS	1305	83.2	0	1466.5	77.3	11.5						
1/2 P-P	2755.6	168.1	0	2580.6	152.2	28.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	492.9	-361.8	-51.4	83.9	0	467	1963.9	-68.1	-58.7	-9	6.8	
2nd	229.7	-99.7	-31.6	2.3	0	-98.2	-21.2	31.8	3.9	-6.5	0.7	
3rd	277.8	205.2	49.8	4.8	0	-59.2	129.6	12.6	-43.9	-7.8	-0.9	
4th	1192.9	-905.5	-6	15.2	0	-32.9	52.6	0.2	12.4	1.6	0.3	
5th	539	533.8	5.3	9.1	0	220.1	-187.2	-12.1	8.2	0.3	-0.4	
6th	35.6	20.9	5.2	-3.8	0	16.7	49.3	-5.7	4.5	0.5	-0.8	
7th	-21.4	16.6	-1.4	0.3	0	-3.9	-44.6	-1.2	1.7	0.3	-0.7	
8th	75.4	94.8	-4.4	9.8	0	-158.4	-248	-5.3	12.8	0.5	-1.3	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
34/ 7												
MEAN	-3434.7	-1776.1	-424.8	175	172.7	-221.6						
RMS	420.9	257.4	109.6	96.2	118.3	269.6						
1/2 P-P	680.8	417	203.5	201.7	263	544						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
	1st	15.2	-295.7	10.1	-201.5	6.2	-128.2	7.1	-112.8	15.8	-117.4	156.1
	2nd	479.7	-172.4	284.6	-94.3	77.1	-28.2	-49.9	17	-92.5	35.7	-280.9
	3rd	-57.9	-23.2	-31.5	-13.4	-6.8	-1.4	8.5	12	18	20.4	29.3
	4th	29.1	-15.7	15.8	-7.6	-2.5	-0.3	-19.3	10	-24.7	15	-18.6
	5th	-4.6	30.3	-0.9	13.4	5.6	-6.3	10.4	-24.2	11.2	-29.4	-2.5
	6th	3.8	-8.5	4.1	-2.7	2.9	5.1	0	11.3	0.9	13.3	-0.6
	7th	1.8	-8	2.5	-2.7	1.9	4.4	-0.7	8	-2.6	9.8	0.8
	8th	0.7	5.6	1.8	1.8	2.4	-4.1	1.7	-7.7	0	-7.9	-1.8
8.6												
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400					
34/ 7												
MEAN	-380.5	-450.7	-188.7	-8781.1	-2663.8	-334.4						
RMS	313.4	275	125.9	277.1	238.8	74.6						
1/2 P-P	510.4	476.4	289.8	588.2	662.3	116.3						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	246.2	-171.2	232.8	-140.6	69.6	-44	6.4	-132.9	68.1	37.5	-91.9
	2nd	-273.1	141.2	-195.4	136.7	-7.8	59.4	-328.4	61.1	-39.8	-33	0.4
	3rd	-25.3	87.9	-58.3	100.6	-73.5	101.9	38	-14.1	-34.5	25.7	8.8
	4th	4.5	-17	9.2	-22.7	-5.6	-16.3	-9.7	30.2	89.3	-209.7	-5.7
	5th	-23.2	39.1	-28.2	42.9	-9.8	23.3	-6.2	-48.4	7.7	88.1	2
	6th	13	-20.8	19.6	-21.2	11.1	-11.4	3.6	-1.2	-21	3.9	-2
	7th	4.1	-1.5	9.1	8.5	10.1	10.5	-23.1	25.6	13.4	2.1	1
	8th	0.6	-0.9	-0.7	-6.3	1.1	-6.3	-7.3	5	-11.2	0.7	1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2140.4		-978		-98		311		274.4		-117.3	
RMS	263		157.5		98.2		147.1		163.1		276	
1/2 P-P	560.8		304		226.4		356		393.6		535.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-115.4	-86.9	-76.8	-78	-36.3	-86.2	-32.1	-110.9	-29.6	-125.2	10	-209.7
2nd	252.6	-88.1	149.3	-47.7	32	-13	-47.7	10.5	-76.5	22.2	-217.3	63
3rd	150.8	-102.6	85.4	-54.9	3	-9.7	-57	29.8	-78.1	51.7	-177.4	95.8
4th	61.1	-0.9	34.3	-0.9	2	-7	-30.4	-5.7	-42.1	-1.5	-33	7.1
5th	-25.4	-49.1	-10.4	-19.3	2.3	20.6	12.6	55.7	19.9	66.2	8.8	0.2
6th	24.4	-18.3	11	-6.9	-8.7	6.2	-28.6	18.7	-31	23.5	18.4	-5.4
7th	1.9	-1.9	1.8	-0.9	0.6	2.4	-2.7	2.8	-4.2	2.6	2.7	-2.5
8th	2.6	-59.2	-2	-8.6	-15.1	60.1	-24.5	108.6	-16.6	103	58.9	-115.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-343.5		-495.7		-372		-8136.4		-2608.6		-383	
RMS	326.6		341		263.1		472.2		640.7		70.9	
1/2 P-P	635.3		710.5		641.8		1008.3		1466.5		141.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	42.1	-212.4	53.7	-170.3	35.3	-46.1	-567.8	-15.6	-171.1	108.7	36.5	-83.1
2nd	-261.7	113.7	-246.9	113.9	-127.5	52.2	-134.8	123.5	124.9	-58.3	-28.2	2.5
3rd	-183.2	127.5	-170.8	139.8	-142	121.9	30.6	16.8	-91.5	-50.5	-22.3	7.2
4th	29.3	8.3	52.3	7.6	50.6	16.2	-64	59.1	598.5	-512	-2.6	-10
5th	-11.7	-152	-15.2	-191.8	10.8	-149.6	74.5	79.2	-148.4	-183	-1.4	4.4
6th	49.9	-32	33.5	-31	3.6	-12.2	1.8	0.2	-4.9	-5.6	4.9	-5.9
7th	-4.3	-1.8	-13.6	7.5	-26.4	12.2	-8.4	3.5	9.6	-0.7	0.7	-1.4
8th	-18.9	40.4	-38.8	161.7	-39.5	166.9	-178.3	-144.5	181.9	137.4	-2.8	7.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
34/ 8												
MEAN	-2249.1		-5932.5		-2218.8		-6197		-3017.2		-970.8	
RMS	265.7		538.6		277.6		684		572		481	
1/2 P-P	608.3		1127.2		617.1		1233.7		1020.4		994.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	161.2	119	116	-165.6	153.1	901	105.2	750.4	111.6	463.5	-15.9
	2nd	-212.8	74	138.3	224.1	-66.9	-117.2	100.1	-74.4	69.3	37.7	-13.1
	3rd	-113.3	-147.4	6.4	-154.1	108	-29.1	-4.7	-24.2	11.6	23.5	62.1
	4th	54.3	-2.2	-90.2	53.6	-6.5	5.4	-29.7	73.3	-63.8	351.1	-273.1
	5th	48.2	-36.3	-55.1	65.9	21.8	-76.9	-70.1	-39.4	-37.2	83.4	117.7
	6th	-28	18	26.2	-3.2	-14.7	-22.6	-2.4	-12.3	-3.6	7.6	2.1
	7th	-2.7	-2.4	-15.6	8.2	-3.5	4	-11.3	13.2	-10.5	5.2	-8.5
8th	-24	-78.4	-183.2	-119.4	-13.6	-63.9	-204.9	-130.2	-168.4	-125.7	-98.5	
-61.9												
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
34/ 8												
MEAN	-1583.9		-373.5		-2049.8		-7512.5		-436.4		-53	
RMS	527.5		82.2		255.3		545.3		73		5.9	
1/2 P-P	1167.9		152.2		598.9		1097.3		137		14.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	310.5	-76	-41.7	102.1	-78.2	-185	670.6	-86.1	-44.5	-1	-3.8
	2nd	89.8	-61.1	-26.7	3.9	-260.9	161.5	-88.7	25.8	-0.6	-3.2	0.8
	3rd	69.9	67.9	17.6	-8.6	106.5	-13.1	30.8	-1.6	-19.6	-3.4	2.1
	4th	453.9	-374.5	-3.2	-2.2	66.1	-12.5	12.1	-3.1	-6.6	0.6	-2.5
	5th	171.3	177.8	-0.3	-4.9	-41.8	64.3	-58.8	3.9	1	0	1.6
	6th	32.5	-0.9	3	-2.5	-26.6	19.9	12.9	-2.7	1.2	0.2	-0.7
	7th	-1.4	-6.8	0.4	1.2	5.4	-5.3	5.2	0.4	-0.5	0.3	-1
8th	80.4	54.8	-0.2	6.4	-28.9	-69.9	-139.1	0.6	7.8	-0.7	1.1	

RUN/POINT 34/9	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-1042.2	4944.3	-982.2	5328	-2231.4	-706.3					
	RMS	370.5	1273	363.2	1438.3	1198.7	953.7					
	1/2 P-P	710	2291.5	705.8	2649	2247	1969.4					
HARMONIC	1st	261.5	-38.9	-752	-1566.9	21.9	259.5	-783.6	1522.9	-617.1	848.8	-471.2
	2nd	-58.1	24.1	-49.5	-124.6	65.4	-19.1	87.3	88	99	154.2	-11.9
	3rd	-226	-315.2	15.7	-90.9	-323	208.9	-81	-60.8	11.1	68.7	120.4
	4th	100.2	20.9	-132.3	71.5	110.8	19.6	8.8	125.8	-93.5	619.5	-504.7
	5th	131.1	-83.5	-157.6	168.8	78.4	119.6	-211.7	-106.1	-68.7	246.8	301.2
	6th	-50.8	23.3	55.2	5.3	44.8	-19.5	-48.7	-33.5	-14.7	20.1	19.3
	7th	1.7	-6.8	-8.9	4.6	-6.2	-3.9	-3.8	-5	-18.9	-12	-26
	8th	-10.4	-107.1	-215.7	-231.1	-1	-83	-241.3	-193.2	-248.9	-114.6	-133.3
RUN/POINT 34/9	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1500.6	-416.6	-869.7	-6566.1	-489.3	-56					
	RMS	1025.1	85.9	357.7	1290.8	79	8.8					
	1/2 P-P	2262.3	171	679.2	2372.2	155	20.8					
HARMONIC	1st	475.3	-392.3	-51.8	94.8	-175.5	131.9	699.3	-78.2	-57	-4.9	-3.3
	2nd	171.3	-74.8	-28.1	4.3	-100.6	26.9	-36.5	31.3	1.7	-6.5	2.8
	3rd	180	146.4	43.3	-5.6	222	320.1	-37.8	6.8	-40.8	-7	-0.1
	4th	795.6	-730.6	-1.5	7.1	110.2	21.9	-40.9	-0.7	4.3	0.8	-0.6
	5th	478.1	447.2	7.6	1.8	-110.6	88	176.5	-2.8	9.2	-1.2	-0.4
	6th	55.8	25.9	4.2	-3.2	-40.8	23.5	16.1	-4.1	3.2	0.7	-1.1
	7th	-12.3	5.7	-0.7	-2.9	-0.3	12.1	-5.7	-1.6	0	-0.5	-1.3
	8th	92.5	105	-2.9	10.3	-17.3	-94.6	-198.3	-2.4	12.2	-1.7	0.3

RUN/POINT 34/10	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570								
	MEAN	-275.1	179.7	374.3	519.4	440.6	64.8	RMS	375.7	210.6	108	223.9	269.4	438.8	822.4				
1/2 P-P		696.6	383.5	262.7	514	571													
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	-194.6	44.1	-137.3	1.6	-63.4	-69	-68.8	-125.7	-74.7	-149.6	-162.5	-278.1						
	2nd	50	7.3	28	5.3	-10.5	2.3	-47.4	4.4	-60.8	9.7	-170.3	21.4						
	3rd	383.6	-230	214.2	-121.7	4.6	-20.7	-145.8	61	-203.4	100.5	-439.7	193.3						
	4th	119.9	24.9	65.7	9.7	5.3	-17.2	-54.3	-32.5	-78	-32.8	-72.4	-10.4						
	5th	-61.6	-116.9	-25.2	-43.2	7.8	54.5	38.4	144.6	56.3	171.1	21.1	-9.9						
	6th	48.5	-17.8	16.4	-5.7	-27.9	5.9	-70.2	17.9	-76.2	23.2	51.2	9.2						
	7th	7.3	3.3	2.4	-1.3	-5.2	-6.8	-14.3	-12.1	-16.5	-12.5	9	17.2						
8th	-0.9	-63	-8.6	-11.3	-24.1	63.4	-33.9	116.7	-22.1	112.4	69.9	-128.1							
RUN/POINT 34/10	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400								
	MEAN	-264.2	-528.4	-606.8	-6644.8	-2520	-442.5	RMS	554.5	586.2	478.3	1825.4	80.1	1/2 P-P	1104.1	1199.3	1076.8	3097.2	3014.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	-195.8	-291.5	-145.3	-228.1	9.5	-66.8	-2381.3	846.1	-312.5	369.2	51.1	-70.5						
	2nd	-332.4	55.9	-414.8	55.6	-353.2	23.9	115.9	85.4	239.7	-132.9	-38.9	4.5						
	3rd	-389.7	261.5	-348	259.5	-309.2	204.8	143.6	36.5	-336.3	-211.9	-54.1	-8.1						
	4th	102.1	40	176.2	59.8	188.8	46.5	-131.1	61.2	1439.3	-993.7	3.3	10.2						
	5th	-67.5	-347.4	-48.7	-407.7	43.3	-286.8	206.5	158.9	-424.9	-448.8	-9.9	-13.1						
	6th	105.5	-28.9	48.2	-42.6	-4.4	-16.9	-26.6	-24.4	-0.4	22.7	9	-6.5						
	7th	10.9	3.1	-36.8	-2.2	-95.8	-6.8	13.4	31.2	-5.3	-28.5	1.1	0.3						
8th	-36.3	41.1	-42.3	177.1	-57	173.8	-251	-252.7	270.3	243.1	-1.6	8.7							

RUN/POINT 34/10	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	MEAN	-344.9	-4453	-266.3	-4842	-1798.4	-584.3					
	RMS	374.3	1871.5	368.5	2053.7	1717.8	1316.4					
	1/2 P-P	766.4	3042.7	712.8	3471.7	2976.6	2694.2					
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
	1st	30.7	61.5	-2498.2	-43.6	2757	-739.6	2310	-584.6	1269.1	-473.3	
	2nd	-19.9	-20.1	-102.2	27.4	122.6	101.5	121	80.4	189.3	-25.5	
	3rd	-274.3	-389.7	-157.4	-399.9	-142.5	-27.3	-104.8	12.1	99	158.1	
	4th	113.9	23.7	112.9	128.3	15.5	19.5	175.8	-117.7	863.3	-765.7	
	5th	117.7	-87.4	189.7	80.9	-235.7	-124.5	-116.1	-54.1	304	295.6	
	6th	-53.5	17.2	19.5	49	-38.2	-16.8	-27.9	-13.7	11.3	19.2	
	7th	6.5	-10.8	31.6	-9.9	40.6	-4.7	30	-9	-1.8	-28.7	
	8th	-8.2	-92	-221.5	4.8	-291.8	-253.3	-239.1	-243.6	-133.5	-130.2	
RUN/POINT 34/10	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	MEAN	-1465.4	-431.2	-181.8	-6105.3	-507.1	-51					
	RMS	1393.6	85.4	380.1	1933.3	80.2	10.7					
	1/2 P-P	3045.3	171.7	698.6	3269	156.9	25.1					
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
	1st	709.9	-419.2	-54.2	86	53.5	2620.8	-70.8	-61.8	-6.5	4.5	
	2nd	211.4	-86.3	-30.7	5.5	-48.5	-71.4	32.1	1.5	-7.8	3.9	
	3rd	261.2	207.4	51.5	-1.1	271.8	403.9	9.5	-48.2	-7.9	-1.3	
	4th	1112.4	-1121	-1.7	16.4	125.9	29.4	1.6	10.6	1.1	0	
	5th	566.7	430.6	5.9	5.4	-105.8	87.8	-7.6	8.6	-0.5	-1.1	
	6th	33.4	29.9	3.9	-5.3	17.9	30.3	-4.9	4	0.9	-1.2	
	7th	-32.7	-1	0.2	-1.2	17.9	-6.4	-1.7	0.9	-1.6	-1.4	
	8th	112.9	98.4	-2.7	10.6	-246	-246.9	-3.5	12.8	-0.5	-1.1	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	342.9	564.9	531	590.8					496.1	133		
RMS	475	277.5	142.7	257.9					309.1	491.4		
1/2 P-P	799	469.9	313.2	582					641.2	886.5		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-389	-58.5	-60.6	-113.3	-101.4	-94.5	-144.3	-98.7	-167.8	-213.5	-301.6	
2nd	-14.3	31.7	18.9	-22.9	6.2	-46.3	2	-56.8	7.1	-170.3	8.9	
3rd	421.2	-259.2	-136.2	-0.1	-20.4	-166.5	73	-231.9	117.2	-492.6	221.3	
4th	135.7	37.7	15.7	4.5	-20.8	-65.3	-43.8	-93.4	-45	-83.3	-19.9	
5th	-49.6	-139.8	-49.7	2.9	67.5	26.3	175.2	41.6	207.5	21.4	-14.9	
6th	58.3	-22.8	-8	-31.3	6.1	-80.6	19.6	-88.2	27.5	62.7	7.7	
7th	10.7	6.5	-0.7	-9.8	-12.2	-23	-20.8	-26.1	-21.1	18.2	32.8	
8th	-13.9	-63.8	-9.3	-22.4	70.4	-24.6	127.1	-10	121.1	59.9	-143.6	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-231.2	-534.2	-678.7	-6177.1					-2502.2	-458.5		
RMS	629.4	673.9	564.5	2384.5					1660	84		
1/2 P-P	1294.2	1427.5	1239.4	3959.9					3510.3	170		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-259.5	-309.3	-198.2	-243.7	-74.9	-2833.4	1721.6	-317.3	577.8	57.9	-64.5	
2nd	-379.6	25.2	-492.7	29	11.4	250.8	105.8	303.6	-156.4	-38.3	5.6	
3rd	-424	293.5	-378.1	285.6	228.9	202.6	42.2	-456.9	-249.2	-62.9	-7.3	
4th	120.1	57.2	210.7	74.5	48.6	-149.2	66	1653.3	-1156	8	15.9	
5th	-37.3	-419.5	-1.6	-487.9	-355.2	193.2	165.2	-413.1	-508.8	-6.1	-19.7	
6th	115.9	-31.9	46.5	-40.4	-2.8	-17.6	-0.7	-26.7	1.3	9	-7.2	
7th	12.3	5	-56.9	-9.6	-3.8	25.1	3.6	-20.3	-4	0	-1.3	
8th	-35.1	47.1	-26	193.3	182.4	-285.5	-271	309.5	259.4	-0.1	9	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
34/11												
MEAN	268		-3814.5		380.6		-4701.9		-1636.8		-583.7	
RMS	439.2		2410.9		432.5		2585.4		2169.4		1605	
1/2 P-P	747.1		3966.5		704.9		4357.7		3715.6		3301.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144	
1st	117.1	-119.3	-1487.7	-3001.3	145.7	122.7	3215.3	-1618.2	2714.3	-1311.8	1447	-912.8
2nd	46.5	-44.4	-218.2	-116	-42.1	44.8	265.2	142.8	237.3	117.3	276.2	-3.7
3rd	-318.6	-437.9	37.4	-219.3	-441.4	291.2	-210.8	-14.2	-152.4	26.8	139.5	202.8
4th	132.3	34.8	-185.4	104.3	148.5	38.9	24.2	32.4	208.2	-129.6	1002.7	-894.2
5th	141.4	-81.9	-155.5	204.7	72	130.5	-231.6	-134.1	-106.7	-50.3	315.7	353.2
6th	-65.1	20.2	54.4	19.8	52.7	-16.6	-34	-21.1	-24.3	-14.7	7.1	29.4
7th	9.8	-14.3	31.5	-7.7	-14.8	-7.7	23.1	-30	15.4	-29.1	-12.5	-35.5
8th	-15	-95.3	-317.8	-246.5	-5.4	-66.5	-338	-263.2	-278.4	-256.7	-149.2	-143
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
34/11												
MEAN	-1503.5		-447.3		448.8		-5819.2		-528.7		-47.4	
RMS	1651.9		87		442.8		2462.3		83.2		14.5	
1/2 P-P	3578.7		173.8		764.3		4204.3		163.1		30.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	781.1	-723.2	-61.8	79.3	-37.9	194.4	1438.7	3117.5	-63.4	-71.3	-13	6.1
2nd	287.9	-89.3	-27.6	7.7	9.6	-47.8	-199.7	-100.9	30.9	0.2	-8.3	4.8
3rd	364	258	57.7	-2.2	307.5	445	-50.3	199.1	9.8	-53.7	-9.2	-1.4
4th	1280.7	-1315.1	-4.5	21.1	146.9	42.4	-42.8	56.6	3.3	15.8	1.7	1.1
5th	591.9	512.7	4.8	10.5	-123.5	84.1	179	-189.2	-11.3	5.7	0	-1.1
6th	29.2	42.8	5.2	-4.4	-55	20.2	-2	41	-4.7	3.6	0.8	-0.8
7th	-26.7	8.4	1.9	-0.8	-6	18.8	8.9	-24.9	-0.8	-1.6	-2.1	-1.7
8th	135.3	98.4	-2.3	11.8	-20.6	-84.6	-288.1	-267.7	-2.8	13.5	-1.7	-1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1027.1		989.8		705.7		667.9		558.9		213.8	
RMS	503.8		294.1		135		257.7		316.4		536.3	
1/2 P-P	881.6		509		289.6		582.1		647.6		940.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-393.2	-1.6	-265.8	-24.2	-115.1	-89.5	-103.1	-144.1	-110.4	-171.3	-263.3	-317.5
2nd	-62.8	40.2	-39.5	23.8	-35.2	9.8	-51.2	5.8	-58.4	10.8	-167.8	2.8
3rd	461.7	-290.2	255.9	-152.6	-0.9	-21.9	-183.6	82	-256.9	129.7	-537.5	255.1
4th	146.5	47.6	79.5	20.9	5.1	-21.1	-70.1	-49.5	-101	-52.5	-95.9	-23.1
5th	-65.3	-112.2	-26.6	-39.5	11.2	58.3	46.3	147.7	64.2	173.2	14	-16.9
6th	64.6	-28.9	23.9	-11.9	-33.5	4.9	-86.7	21.7	-96.2	29.6	67.5	6.7
7th	19	4.5	5.2	-1.2	-15.8	-10.6	-35.6	-17.8	-39.9	-16.5	29.4	35.4
8th	-11.9	-55.1	-14	-8.3	-20.1	59.6	-22.8	108.5	-11.2	102.7	49.4	-126.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-190.1		-528.1		-740.3		-5723.5		-2488.8		-467.3	
RMS	672.3		720.5		635.4		3085.1		1875.8		83	
1/2 P-P	1372.4		1527		1401		4955.8		3761.6		180.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-313.2	-320.2	-235.7	-249.7	13.2	-80.8	-3755.9	2114.7	-400.7	700.4	62.6	-55.6
2nd	-429.9	7.4	-582.5	15	-540.7	4.9	332.3	150.2	359.6	-174.5	-36	7.7
3rd	-475.6	329.8	-443.9	315.5	-427.7	258.5	301.5	39.8	-592.7	-325.7	-63	-10.4
4th	153.9	66.4	273.2	76.9	286.9	42.4	-156	55.8	1866	-1298.2	12	24.5
5th	-83	-352	-34.2	-398	107.7	-304	193	129.1	-461	-443.6	-1.1	-16.2
6th	123.7	-37	50.5	-46	-5.3	-2.6	5.8	-11.5	-63.2	24	6.3	-8.7
7th	22.4	3.1	-65.7	-8.4	-166.3	18	20.2	19.5	-10.8	-19.7	-1	-0.7
8th	-29.5	40.4	-13.2	163.9	-38.9	147.4	-306.4	-189.3	333.2	189.8	-1.1	9.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	962	-3370.9	1082.4	-4049.4	-1059.7	-372.6						
RMS	470.1	3118.5	463.6	3207.8	2691.6	1916.9						
1/2 P-P	847.3	4922.7	788.3	5286.4		3961.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	43.7	-105.4	-3957.5	160.4	42	4015.9	-1996.1	3386.9	-1623	1781.1	-1108.9	
2nd	88.6	-53.8	-144.6	-85.4	51.9	305.2	183.6	274.4	151.7	310.7	-1	
3rd	-342.1	-490.7	-321.7	-481.4	323.9	-315.3	-6	-226.6	41.3	159.2	248.3	
4th	145.8	40.3	116.5	163.3	45.1	41.7	25.4	249.9	-163.2	1151.9	-1061.7	
5th	113.8	-101.1	224.2	88.5	103.3	-230.9	-117.3	-96.6	-44	380.7	317.8	
6th	-78.4	26.5	11.5	64.6	-17.3	-34.8	-27.6	-26.1	-20.9	-0.7	24.4	
7th	4.6	-24.1	1.1	-23.7	-4.5	-22.3	11.4	-22.9	-2.3	-25.6	-34.6	
8th	-12.2	-76	-175.9	-11.4	-47.6	-350.5	-166.9	-294.1	-174.5	-156.5	-100.9	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1429.8	-456.8	1118.5	-5136.4	-542.7	-41.2						
RMS	1922.8	86.5	473.3	3130.6	84.8	19.4						
1/2 P-P	4189.6	181.9	848.1	5091.3	170.6	39.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	947.6	-874.3	-67.3	69.9	39.5	175.6	4018.2	-54	-78.8	-19	12.7	
2nd	329.1	-103.9	-25.7	11.1	54.5	-53.2	-143	29.5	-2.2	-8.7	6.5	
3rd	455.5	318.1	58.8	0.2	336.9	489.3	286.1	13.8	-55.4	-7.9	-1.3	
4th	1469	-1558.8	-1.9	30.4	158.7	46.5	37.5	8.5	24.3	2	2.8	
5th	678.5	448.3	-0.7	8.3	-99.2	95	-200.6	-11.4	0.5	1.7	-0.6	
6th	31.1	44.5	3.7	-6.2	-60.8	23.1	52.4	-2.4	5.2	1.1	-1.2	
7th	-5.9	-19.8	1.6	-0.1	-1.6	26.8	4.3	-0.1	-1.7	-1.7	-2.1	
8th	144.6	62.2	-2.4	11.9	-19.1	-66.1	-185.7	-3.2	12.5	-1	-1.7	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1663	1383.6	866.5	739.1	616	285						
RMS	501.2	282.6	115.4	263.3	328.5	569.6						
1/2 P-P	929.9	535.6	255.2	581	664.6	1038.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-222.1	119.3	-166	52.7	-70.5	-62.9	-91	-143.3	-105	-177.5	-288	-347.7
2nd	-143.1	59.7	-87.7	33.8	-49.6	12.3	-46.9	2.9	-49.6	7.4	-169.4	-3.6
3rd	511.7	-314.9	284.5	-166.4	2.1	-25.6	-198.2	84.1	-277	134	-570.9	254.5
4th	153.9	34.7	85	13.6	7.8	-22.5	-71.2	-45.6	-103.2	-46	-107.9	-22.6
5th	-55.6	-124.1	-22.9	-44.3	7.1	61.8	35.4	157.3	52	185	12.7	-16.8
6th	67.2	-26.2	26.5	-10.3	-30.9	3.1	-85.2	16.2	-94.3	24.4	70	6.8
7th	16.1	5.3	4.5	-2.2	-11.7	-13.8	-28.5	-24.4	-32.8	-23.4	16.5	41.2
8th	-13.3	-61	-13.3	-9.5	-17.4	64.7	-19.1	118	-7.2	111.9	44.2	-133.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-145.2	-512.3	-800	-5166.6	-2451							
RMS	715.6	774.3	678.9	4030.7	2133.1							
1/2 P-P	1495	1662.1	1447.4	6327.6	4209.5							
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-351.9	-343.7	-271.9	-265.2	3.6	-82	-5081.7	2469.4	-571.9	849.3	70	-45.8
2nd	-490.3	-4	-676.7	8.1	-623.8	0.2	424.6	165.6	419.6	-204	-26.5	16.5
3rd	-495.5	316	-459.6	291.1	-447.4	231	357.8	74.3	-674.2	-375	-62.8	-4.8
4th	148.4	59.9	278.4	61.1	292.8	28.4	-165.6	42.9	2081.5	-1516.4	21.3	36
5th	-72.1	-376.7	-22.1	-417.8	121.3	-315.5	191.6	126.8	-457.2	-463.7	4.5	-19.8
6th	117.5	-31.3	28.1	-43	-24.5	6.6	-26.6	7	-41.7	13.3	6.8	-11.5
7th	25.2	6	-51.5	-24.5	-160.5	-9.9	9.7	-4.4	12	-1.8	-2.8	-0.6
8th	-27.4	38.5	-1.6	174.1	-32.3	146.9	-305.3	-188	331.8	188.6	-1.9	10.9

RUN/POINT 34/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	1612.8	-2898.5	1745.2	-3659.2	-696.8	-257.1	2344.6	4681.6			
RMS		503.4	4046.9	501.7	4121.5	3459.3						
1/2 P-P		956.9	6180.6	934.6	6647.5	5688.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-96.1	74.2	-2062.1	-5284.6	0.3	-88.1	5277.3	-2353.1	4444	-1920.6	-1318.3
	2nd	142.3	-62.2	-368.8	-182.7	-158.4	64.1	406.3	228	357.2	189	14.6
	3rd	-358.9	-530.6	43.6	-382.1	-535.2	347.9	-355	-28.8	-252	26.9	277
	4th	154.2	30.6	-179.6	164.9	173.4	36.3	66.5	15.1	285.5	-206.3	-1268.8
	5th	120.4	-80.4	-119.1	188.6	70.2	120.8	-229.4	-112.2	-98.8	-34.8	344.5
	6th	-76.3	15.8	85.8	11.1	61	-13.7	-51	-16.6	-40	-10.5	43.3
	7th	7.4	-26.3	6.1	-5.6	-18.7	-6.2	-15.3	-12.9	-16.2	-19.3	-40.6
	8th	-18	-61.5	-316.3	-155.2	-20.4	-47	-349.7	-167.1	-293.6	-174.9	-103.8
RUN/POINT 34/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1405.1	-459.3	1765.9	-4913.5	-549.6	-32.3	85.7	24.5	47		
RMS		2214.4	86.2	507	4109	175.9						
1/2 P-P		4723	185.7	958.6	6456.1							
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	1271	-1053.1	-75.8	57.6	154.6	-39.2	1997.1	5414.8	-42.2	-89.1	21.2
	2nd	383.2	-105.7	-16.5	19.9	121.7	-66.6	-325.6	-182.6	23.2	-11.1	8.7
	3rd	548.1	363.8	57.2	-4.7	353	533.8	-69	330.2	5.7	-47.9	-0.5
	4th	1541.2	-1840.8	7.4	36.1	167.7	37.8	7.5	35.4	17.6	32.3	5.1
	5th	668.7	479.1	-5.1	11.8	-111.3	85.8	173.5	-168.5	-13.8	-4.3	-1.2
	6th	32	67.8	0.6	-7.7	-61	21.6	24.6	40	-2.2	7.7	-1.5
	7th	-19.9	-2	3.1	-0.1	-6.7	26.6	-8.4	-16.1	0.3	-1.9	-2.6
	8th	152.5	57	-2.5	11.4	-16.3	-65.8	-308.1	-174.6	-3.6	13.6	-1.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	3080.7		2261.9		1225.7		905.1		753		481.8	
RMS	677.7		397.4		131.8		269.4		346.8		643.1	
1/2 P-P	1346.5		783.8		283.1		570		700.9		1199.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-422.3	281.6	-294.3	158.5	-112.3	-26.7	-111.7	-139.1	-122.6	-181.3	-375.8	-381.3
2nd	-314.3	110	-190.1	60	-78.9	20.4	-37.1	0.8	-25.9	1.6	-141.8	-24.1
3rd	583	-390.7	325.9	-208.8	3.9	-32.3	-223.3	100.8	-314.3	164.3	-635.6	292.8
4th	173.4	31.4	98	9.4	19.2	-25.7	-65.5	-50.3	-98.8	-51.9	-139.4	-26.9
5th	-90.7	-90.6	-34.7	-33.8	26.7	45.7	81.6	117.3	105.4	136.9	10.4	-26
6th	62	-29.2	22.5	-12.3	-33.6	1.8	-85.2	19	-93	28.1	85	-0.1
7th	25.3	12.3	6.9	-0.5	-19.2	-22	-44.5	-38.6	-50.6	-36.5	32.8	60.7
8th	-40.6	-31.4	-13.7	-3.8	21.5	39.8	49	68.9	53.9	59.9	-45.9	-96
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-37.9		-480.1		-913.9		-3933.3		-2400.6		-441.7	
RMS	792		858.8		752.2		5650.3		2772.6		104.8	
1/2 P-P	1688.9		1879.9		1544.3		8744.3		5367.7		217.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-453	-355.4	-355	-279.5	-10.4	-102.3	-6879.6	3930.5	-697.5	1247.2	72.8	-46.6
2nd	-589.9	-55.2	-823.3	-29.1	-750.1	0.6	710.9	109.5	536.8	-230.5	28.5	52.7
3rd	-544	314	-542.9	261.1	-537.1	194.8	501.9	128.3	-949.1	-475.6	-63.6	10.7
4th	151.4	70.2	306.8	48	283.9	-11.1	-289.2	26.2	2823.8	-1804.7	42	61.1
5th	-201.4	-287	-128.6	-284.9	94.8	-232	264.2	39.1	-615	-303.4	17.1	-18.6
6th	108.8	-32.1	2.1	-21.6	2.8	57.4	-34.8	30.6	-43.2	35	0.6	-16.4
7th	45	11.2	-65.3	-43.1	-208.9	-18.9	35.1	68.5	-10.8	-59.2	-2.4	-2.8
8th	-0.6	27.8	98	97.3	34.2	42.4	-316.4	-16.2	352.1	2.6	3.2	3.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$		
40/13								
MEAN	-344.1	-419.4	-180	-8899.7	-2654.3	-350.4		
RMS	274.1	253.1	142.7	465.5	215.4	76.9		
1/2 P-P	507.1	494.6	348.6	909.5	561.8	128.4		
HARMONIC								
1st	COSINE 197.5	COSINE 195.2	COSINE 71.8	COSINE 590	COSINE 0.8	COSINE 43.3	SINE -96.4	
2nd	SINE -159.1	SINE -131.4	SINE -44.7	SINE -231.2	SINE 77.1	SINE -38.8	SINE 2.6	
3rd	COSINE -238.8	COSINE -177.5	COSINE -20.6	COSINE 62.8	COSINE -33.9	COSINE -6.8	SINE 3.1	
4th	SINE -37.7	SINE 90.5	SINE -68.2	SINE 91.7	SINE 16.5	SINE -163.6	SINE -1.2	
5th	COSINE 11.1	COSINE 15.8	COSINE -0.7	COSINE -12.7	COSINE 13.8	COSINE -4.6	SINE -2.8	
6th	SINE -50.8	SINE -0.6	SINE -27.6	SINE -8.2	SINE -18.1	SINE -80.8	SINE -1.8	
7th	COSINE 14	COSINE 16.9	COSINE 10.8	COSINE -10.4	COSINE 12.7	COSINE 2.5	SINE 0.8	
8th	SINE 4.3	SINE 3.9	SINE 4.1	SINE 14.2	SINE -27.7	SINE -10.8	SINE -0.4	
	COSINE 3.5	COSINE 8	COSINE 6.6	COSINE -28.5	COSINE -27.4	COSINE 1.1	SINE 2.6	

RUN/POINT 40/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-3584	-6522.6	-3559.5	-7111.5	-3818.9	-1342.3					
	RMS	287.2	381.2	284.4	310.4	244.3	152.7					
	1/2 P-P	533	768.4	484	666.4		374.2					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	128.2	-114	449	56.6	123.3	-286.7	154.9	-231.5	132	-81.6	13.3
	2nd	-342.8	109.7	-80.8	358.5	-96.2	-231.7	78.2	-169.4	53	-54.9	2
	3rd	-29.7	29.6	-12.5	31.8	28.4	-21.1	24.7	-11.9	18.8	16.3	3.4
	4th	30.9	-13.6	40.5	28.8	-15.3	-18.1	3.8	7.1	-17.8	119.2	-118.2
	5th	-9.7	-28.7	13.6	18.3	-10.1	-39.7	20.7	-22.9	9.9	50.6	-16.7
	6th	-2.5	11.7	9.5	0	-11.8	3	5.2	1.4	3.3	0.4	-5.7
	7th	-1.8	0.3	16.8	-2.6	3.8	17.8	-27	15.6	-21.2	1.6	-7.8
	8th	-21.6	-26	-27.9	-16.9	-30.2	-32.5	-24.4	-26.2	-20.6	-15.2	-10.2
RUN/POINT 40/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1713.3	-346	0	0	-8265.6	-400.6	-78.1				
	RMS	198.1	88.6	0	0	410.6	78.3	6.5				
	1/2 P-P	517.4	136.3	0	0	809.6	128.9	13.9				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-13.9	-32.4	-45.4	114	0	-141.7	-470.5	-96.4	-49.4	6.7	-5.1
	2nd	12.1	-19.6	-21.8	2.5	0	264.8	-51.7	19.1	-2.1	0.4	0.1
	3rd	36.5	-7.2	0.2	-4.1	0	22.6	22.5	-0.4	-7.3	0.4	-0.2
	4th	157.8	-171.1	-8.5	0.2	0	-9.8	10.5	-6.9	1.8	-0.1	0
	5th	85.5	-36.3	-1.6	-1.1	0	-22.6	-16.4	1.1	-0.4	0.2	0.2
	6th	-0.1	-8.1	2.1	0.4	0	-4.2	-1.8	-3.3	1	0	0
	7th	-10.6	14.1	0	-0.3	0	13.5	-25	-0.8	0.1	0.1	-0.4
	8th	18.5	15.4	0.9	3.4	0	-30.5	-29.3	0.7	4.8	0	0.2

RUN/POINT 40/14	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2238.6	-1051.9	-142	0	0	0	264.3	-118.6	264.3	-118.6	264.3	-118.6
RMS	273.6	162	101.4	0	0	0	188.7	261.2	188.7	261.2	188.7	261.2
1/2 P-P	513.9	289.7	229	0	0	0	416.1	539	416.1	539	416.1	539
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-127.6	-151.8	-81.4	-114.7	-34.1	-101.1	0	0	-21.2	-126.3	-5	-197.5
2nd	206.2	-88.8	123.5	-49.5	26.2	-15.3	0	0	-59.7	20.7	-180.1	62.2
3rd	138.5	-124.2	79.8	-67.2	4.6	-12.2	0	0	-70.5	56.3	-171.7	122
4th	53.3	12	29	5.8	1.7	-4.7	0	0	-34.5	-8.9	-31.8	-1.2
5th	-41.8	-123.7	-15.9	-49.6	3.6	44.5	0	0	35.9	158.6	14.7	0.8
6th	24.5	-13.7	11	-5.4	-8.6	2.7	0	0	-29.7	14.8	15.1	-0.3
7th	-5.2	7.3	1	3.7	8.7	0	0	0	14	-5.8	-19.1	0.6
8th	28.9	-54.2	3.9	-7.8	-36	53.1	0	0	-56.4	93.4	101.1	-85.6
RUN/POINT 40/14	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-312.5	-466.1	-348.2	-8220.8	-2598.2	-393.7	-2598.2	-393.7	-2598.2	-393.7	-2598.2	-393.7
RMS	359	395.5	297.9	419.9	578.9	79.6	578.9	79.6	578.9	79.6	578.9	79.6
1/2 P-P	723.8	786.9	660.5	886.2	1351.5	149.7	1351.5	149.7	1351.5	149.7	1351.5	149.7
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	18.9	-200	31.7	-159.1	30.8	-47.4	-435.9	221.8	-123.3	162.7	48.5	-89.1
2nd	-229.8	106.3	-224.7	105	-134.8	42.9	-97.3	111	96	-55.1	-35.6	6.1
3rd	-151.7	148.6	-132.7	152.7	-113.6	136.8	32.3	11.2	-89.8	-38.2	-26.6	4.2
4th	40.1	8.1	71.9	4.2	81.8	0.9	-68.5	33	495.5	-327.3	3.3	5.5
5th	-37.6	-312.4	-52.3	-374.2	-14.6	-273	101.4	180.7	-202.3	-409.2	-11.6	-6.2
6th	51.4	-24.5	28.2	-27.8	-14.4	-10.5	-2	1.7	0	-7.7	4.9	-4.8
7th	-4.8	2.5	4.1	0.2	-4.6	0.5	-21.2	5	25	-6.6	0.7	0.5
8th	-32.9	33.9	-95.8	144.2	-90.7	146	-23.3	-147.9	26.8	144.2	-2.4	4.8

RUN/POINT 40/14	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2341.7	-5869.3	-2311	-6484.5	-3232.5	-1127.1						
RMS	286.7	466.7	294.2	616.9	507.3	452.5						
1/2 P-P	598.8	992.6	632	1238.3	998.9	940.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	234.4	84.9	-561.1	230.7	-162.3	665.9	-116.3	413.9	-157.7			
2nd	-162.6	77.7	-114.7	167.7	-65	114.1	86.8	37.2	10.5			
3rd	-146	-135.7	-36.7	136.8	-28	-7.7	7	32.3	38.5			
4th	52.7	14.6	51.2	11	10.5	-15.6	-43.5	249.1	-185.3			
5th	124.5	-64.4	103.8	56.8	-141	-166.7	-85.2	162.4	271.3			
6th	-30.4	8.9	0.2	-7.3	-25.6	-19.4	-12.6	25.9	5.4			
7th	5.8	3.4	-23.3	23.7	-8.2	13.5	8.7	-2.5	-7.3			
8th	11	-75.4	-33	-62.7	-42.6	-146.9	-130.7	-17.3	-76.1			
RUN/POINT 40/14	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1641.1	-383.5	0	-7658.7	-452.1	-83						
RMS	543.9	88.1	0	470.1	79.7	5.7						
1/2 P-P	1285.7	166.1	0	957.8	149.5	12.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	265.3	-172.3	-49.3	105.8	0	115.1	567.9	-88.8	-54.5	6.9	0.7	
2nd	69	-34.6	-28.5	5.6	0	122.2	-88.8	30.7	-2.9	1.9	-0.7	
3rd	69.4	50.6	24.8	-8.4	0	-12.9	32.9	1.7	-24.5	1	0.1	
4th	318.1	-272.2	3.2	10.2	0	-29.6	-9.2	2.2	6.7	-0.1	-0.2	
5th	314.8	431.7	9.1	-0.4	0	184.4	-88.8	-1.6	-0.2	-0.2	-0.2	
6th	48.8	17.2	4.6	-3	0	18.2	21.8	-3.9	0	0	0.1	
7th	-3.4	-10.3	-0.5	-1.1	0	-8.7	-2.8	-0.9	0.2	0.1	-0.1	
8th	15.7	59.1	-4.8	6.4	0	-30.5	-143.4	-3.8	7.7	0	-0.1	

RUN/POINT 40/15	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-886.9	-123.7	-194	-99.6	-82.4	-106.6	0	0	378.6	-149.9	-133.4	-250.5
RMS	360.2	33.1	31.4	18.5	-6.9	-5.4	0	0	231.4	15.3	-144.2	46.6
1/2 P-P	627.3	198.8	159.4	-105.6	6.3	-19	0	0	483.8	83.3	-332.1	167.3
		34.9	40.8	16	3.7	-10.1	0	0		-29.7	-44.2	-14
		-131.9	-6.7	-50.6	-9.6	51.4	0	0		177	22.1	-3.3
		-14.3	13.8	-6	-14.5	1.8	0	0		12.9	27	5.7
		3	-0.6	1	5.4	0	0	0		-3.6	-13.4	1.3
		-57	1.3	-10	-30.7	53.8	0	0		95.7	90.5	-93.8
RUN/POINT 40/15	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-248.5	-251.4	-118.3	-202.7	20.6	-60.6	-1333	967.5	-2559.1	-645.1	-431.3	-77.1
RMS	461.3	71.8	352.3	80.2	-318.2	31.7	121.4	102.7	872.8	176.8	51.9	7.2
1/2 P-P	926.2	225.9	-220.1	223.7	-210	191.3	93.5	33.9	1843	-227.9	-42.3	-9.5
		40.4	133.8	46.9	183.3	28.1	-78	43.2		702.5	-37	12.9
		-344.5	43.2	-401	83	-293.2	118.6	199.2		-213.7	-6.7	-14.6
		-20	30.8	-28.6	-35.6	-4.7	5.1	-10		-23.7	5.9	-5.1
		1.7	0.8	-2.1	-29.4	7.4	-21.6	4.1		27.6	0.2	1.5
		32.6	-79.6	150.2	-73.7	150.1	-73	-191.8		83.8	-0.7	5.4

RUN/POINT 40/15	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-969.7	-5027.5	-909.8	-5651.2	-2465.9	-827.3						
RMS	323	1227.5	316.5	1367.5	1143.8	857.1						
1/2 P-P	572.1	2107.7	565.9	2433.1	2056.2	1774						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	184.4	-67.4	-790.9	-1498	47.3	181.8	-837.7	1432.3	-677.1	797.6	-531.6	-12
2nd	-25.8	16.7	-93.8	-102.2	27.1	-16.3	105.6	115.7	86.6	145.5	73.9	90.7
3rd	-230.5	-290.8	25.4	-102.8	-293.7	218.3	-83.9	-61.6	2.7	73.9	414.9	-431.8
4th	72.4	30.2	-93.1	67.6	78.2	31	9.5	85.6	-81.7	167.9	326.4	20.6
5th	128.3	-36.8	-158.8	109.4	35.1	133.1	-177.4	-79.5	-85.7	12	-13.5	-109.3
6th	-39.8	10.9	39	-0.1	32.9	-5.9	-20.4	-7.4	8.3			
7th	3.2	1.5	-27.7	25	6.6	-5.2	-209.7	-72	-191.3			
8th	10.9	-70.9	-86	-191.4	11	-44.6						
RUN/POINT 40/15	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1544.7	-420.8	0	-6873	-498.6	-82.1						
RMS	872.5	87.6	0	1240.6	80.7	4.6						
1/2 P-P	1913.4	167.6	0	2210.3	157.8	10.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	435.9	-442	-55.8	94.9	0	0	1533.9	-77.5	-62.5	3.3	-2.8	-1.7
2nd	157.8	-65.4	-35	8.5	0	0	-88.3	36.1	-1.5	2.9	0.6	0.8
3rd	181.2	121.8	36.4	3.2	0	0	91.1	13.1	-32.4	0.1	-0.1	0.3
4th	514.4	-627.4	-7	17.5	0	0	-22.8	-4.5	16.3	0.1	0.1	0.1
5th	344.9	510.1	7	6.6	0	0	203.1	-8.6	9.1	-0.1	-0.1	0
6th	41.1	29.8	5.1	-3.3	0	0	10.5	-4.1	3.2	0	0	0.2
7th	-9.6	-18.7	0.2	-1.2	0	0	-0.1	-1.8	-0.2	0	-0.4	0.2
8th	40.1	74	-3.4	7	0	0	-76	-3.7	7.7			

RUN/POINT 40/16	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570								
	MEAN	-204.3	209.5	374.5	0	439.3	79.6	RMS	325.8	188.7	101.3	234	394	1/2 P-P	555	331.9	225.2	0	477.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	-177.2	-103.9	-86	-123.2	-51.6	-105.8	0	-58.3	-160	-176.8	-283.6							
	2nd	2.9	-17.5	1.5	177.8	-17.5	-1.7	0	-47.4	15.2	-134.7	40.8							
	3rd	317.7	-207.1	177.8	4	-19.4	-19.4	0	-172.8	89.9	-374.6	178.1							
	4th	87.3	32.3	48	5.4	-15	-15	0	-52.4	-36.7	-56.5	-12.5							
	5th	-19.3	-115.4	-8.5	-42.2	49.8	49.8	0	5.1	164.8	19.5	-2.1							
	6th	33.7	-13.1	13	-4	-16.7	4.8	0	-49	17.4	31.2	-2							
	7th	-4.2	-2	-0.9	-1	0.7	1.6	0	2.5	2.2	-4.3	-0.8							
8th	16.4	-34.2	-0.1	-6.7	-26	32.3	0	-37.6	58.4	63.8	-55								
RUN/POINT 40/16	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400								
	MEAN	-207.7	-470.6	-573.2	-6824.7	-2527.1	-443.3	RMS	500	540.2	471.7	1938.4	76.8	1/2 P-P	1007.8	1112.6	1029.2	3168.8	2337.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	-220.5	-274.8	-172.8	-221.9	16	-62.6	-2371.9	1305.8	-287.3	487.3	-67.5							
	2nd	-325.3	58.6	-439.8	73.5	-419.7	28	183.6	133.6	210.6	-111.5	6.8							
	3rd	-296.4	232.6	-253	230.2	-255.8	198.1	138.9	32.3	-303.4	-175.5	-14.3							
	4th	81.4	58.9	170.9	60.5	227.5	41.6	-114.7	49.4	1043.8	-851.2	12.6							
	5th	17.2	-323.1	28.7	-369.1	90.1	-276.8	132.3	164.7	-258.1	-444.5	-17.9							
	6th	84.2	-20.7	39.3	-26.6	-28.5	-1.3	-16.4	5.2	-1.3	-9.7	-6.4							
	7th	3.8	1.5	-3.3	1	-47.2	19.1	-0.3	-20.8	14.3	22.5	1.1							
8th	-29.4	17.8	-59.6	96.2	-56.2	92	-71.5	-159.7	83.5	-0.7	3.4								

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325		
40/16												
MEAN	-282.3	-4510.4	-208.9	-5119.3	-1999.4	-661.5						
RMS	336.4	1987.8	335.9	2151	1797.5	1241.4						
1/2 P-P	696.1	3170.5	673	3575.3	3003.3	2456.6						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE		
2nd	163.3	70.9	-1117.3	-2544.1	-66.5	163	2766.5	-1189.1	2325.6	-958.6	1288.6	
3rd	20.4	3.1	-144.2	-145.6	-21.8	-3.9	194	143.2	169.6	119.3	187.2	
4th	-244.6	-329	19.4	-155.7	-335.3	233.4	-137.4	-22.4	-101.6	8.6	92.6	
5th	85.1	35.3	-128.6	115	92.9	38.1	22.4	-0.2	120.6	-108.3	557.6	
6th	109.3	-33.4	-142.2	115.2	34.4	115.4	-169	-142.2	-82.2	-58.2	206	
7th	-36.4	7.8	43.1	15	28.6	-4.1	-16	-23.7	-11.2	-9.8	2.6	
8th	2	-1	-9.1	-0.9	6	0.8	16.1	-21.7	13.7	-18.9	-4.6	
	8.7	-48.7	-87.4	-151.6	12.8	-30.1	-97	-176.7	-75.4	-163.5	-33.2	
											-98.4	
RUN/POINT												
40/16												
MEAN	-1482.1	-433.4	0	-6364.7	-515.6	-78.8						
RMS	1156.4	84.5	0	2035.2	80.1	3.9						
1/2 P-P	2459.8	170.4	0	3382.6	159.8	10.5						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE		
2nd	706	-593.8	-60.3	85.3	0	0	1073.1	2642.3	-68.9	-69.2	0.5	
3rd	191.9	-74.9	-35.1	9.7	0	0	-153.2	-118.8	36.7	-1.4	3.2	
4th	238.1	166.7	37.2	8.7	0	0	-42.5	139.3	17.9	-32.8	0.7	
5th	697.6	-901.7	-4.2	17.9	0	0	-19.9	0.6	-0.2	16.9	-0.2	
6th	388.2	467.6	5.3	9.6	0	0	168.6	-102.9	-10.1	6.2	0.1	
7th	9.4	43.5	4.3	-5.1	0	0	0.5	29.1	-4.1	4.7	-0.2	
8th	-27.6	-1.3	0.6	-1.6	0	0	20.9	-30.3	-1.8	-1.1	-0.1	
	42.5	63.6	-3	5.7	0	0	-74.6	-162.3	-3.6	5.8	0.2	

RUN/POINT 40/17	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	351	-3965.8	433.4	-4563.7	-1504.5	-463.4							
RMS	361	2526.5	364.5	2654.6	2223.4	1505							
1/2 P-P	589.1	4001	567.9	4318.2	3652.4	2983							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	154.7	-76.6	-1760.2	-3065.5	99	163.4	3198.7	-1894.8	2699.8	-1548.4	1441.6	-1078.3
	2nd	66.4	-13.5	-262.2	-156.3	-69.5	9.7	300.2	173.8	256.2	146.3	248.3	10.3
	3rd	-269.6	-350.9	28.6	-219.5	-357	259.3	-206.6	-13.9	-151.9	18.8	112.7	154.5
	4th	85.3	33	-122.7	128.6	90.6	32	29.3	4.4	137.4	-136.9	603.1	-795.4
	5th	124.9	-40.4	-141.1	148.8	32.5	129.8	-180.1	-136.1	-83.2	-52	244.3	340.4
	6th	-48.4	10	44.4	5.8	37.5	-6.5	-6.2	-28.9	-6.4	-13.5	15.6	32.9
	7th	-2.5	-7.1	-27.2	15.8	-0.9	3.2	-16.4	8.3	-16	3.4	-11.9	-10.1
8th	2.9	-43.1	-136.2	-129.1	0.1	-19.1	-141.7	-137.9	-115.2	-135.3	-45.5	-84.1	
RUN/POINT 40/17	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-1420.6	-446.2	0	-5844.9	-532.2	-75.3							
RMS	1381.8	82.8	0	2589.7	80.9	6.3							
1/2 P-P	2897.1	168.3	0	4175.9	164.3	15							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	756.4	-845.7	-66.6	76.5	0	0	1744.1	3183.8	-61.2	-78	-3.8	-6.1
	2nd	242.3	-81.3	-31.5	13.5	0	0	-267.4	-136.8	34	-5.2	2.7	-2.3
	3rd	297.8	206.6	38.8	6.6	0	0	-48.6	198	15.8	-32.9	0.9	0.8
	4th	743.5	-1136.7	-0.8	21.2	0	0	-0.2	14.6	3.9	20.1	-0.3	-0.3
	5th	452.7	511.1	3.5	11.5	0	0	177.9	-136.8	-14	5.6	0.1	0
	6th	23.5	60.4	1.3	-3.9	0	0	-3.9	34.7	-1.9	4.6	0	-0.1
	7th	-11.6	-13	2.5	-0.4	0	0	-7.9	-5.2	-1.4	-1.9	0	0.1
8th	66.3	44.5	-1.1	7	0	0	-131.5	-131.9	-2.6	6.7	0	-0.1	

RUN/POINT 40/18	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	1105.7	1025.1	709.9	0	559.8	238.8	RMS	492.3	295.6	128.5	0
	1/2 P-P	814.7	507.8	289.4	0	265.2	490					867.5
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-466.3	-38.1	-306.4	-43.5	-125.1	-99.3	0	0	-93.2	-175.4	-282
	2nd	-91.5	39.8	-55.3	22.5	-37.6	9	0	0	-44.6	7.8	-140.6
	3rd	395.9	-273.1	221.3	-145.4	1.7	-23.4	0	0	-222.5	120.4	-472
	4th	98	42	52.8	16.8	3.5	-19.4	0	0	-66.7	-44.9	-74.1
	5th	-7.9	-93.4	-5.7	-32.2	-13.1	44.9	0	0	-13.6	143.1	22.8
	6th	43.7	-10.2	17.9	-3.7	-17.1	1.3	0	0	-56.5	10.2	35.5
	7th	9	1.4	4	0.3	-4.7	-0.5	0	0	-12.7	-2.8	8.5
	8th	-1.1	-32.6	-6	-8.7	-15.8	26.7	0	0	-14.8	50.9	34.2
RUN/POINT 40/18	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	-107.7	-434.2	-692.5	-5594.2	-2481.2	-462.5	RMS	599.8	660	1680.3	74.4
	1/2 P-P	1212.9	1408.5	1253.4	4828.9	3203.4	161.4					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-349.3	-301	-273.1	-247.1	19.5	-77.9	-3450.4	2626.1	-309.6	855.1	66.3
	2nd	-444.8	26.5	-637.1	57	-616.3	23.8	397.1	135	325.3	-153.2	-32.4
	3rd	-364.4	266.7	-319.6	258.4	-350.5	227.3	275.1	62	-510.2	-270.4	-42.6
	4th	99.2	66.2	220.2	42.6	287.4	22.3	-104.8	72.3	1351.3	-1491.6	19.1
	5th	37.8	-275.7	75.8	-295.2	163.4	-249.6	129.4	139.8	-278.1	-408.7	3
	6th	93.7	-26.2	25.7	-30.8	-45.9	9.3	-13.2	-8.4	-21.9	26.3	4.1
	7th	10	3.4	-24	-15	-104.9	23.7	34.3	-23.4	-13.4	23.7	-1.5
	8th	-25.9	13.4	-24.2	82.9	-26.7	63.7	-118	-126	135.1	119.9	-3.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	1056.9	-3330.5	1149.6	-3893.1	-913	-247.5						
RMS	413.9	3137.4	426.3	3193.9	2688.1	1864.4						
1/2 P-P	687.9	4855.7	733.2	5096.4	4358.1	3837.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	56.7	-182.6	-2278	-3758.8	235.6	67.4	3735.6	-2465.2	3166.1	-2031.9	1668.9	-1388.6
2nd	102.4	-44.3	-345.1	-144.8	-112.5	39.5	375.9	188.4	323.4	159	309	17.6
3rd	-311	-410.7	46	-300.4	-414.9	303.1	-279.7	-35.3	-201.5	4.9	151.8	185.2
4th	103	34.3	-138.4	151.2	105.2	32.9	30.7	1.9	183.7	-193.3	847.1	-1089.4
5th	100.2	-25.1	-118.1	144.4	19.2	98.3	-177.6	-140.7	-81.4	-62.7	238.8	310.7
6th	-44.7	8.9	30.7	17.1	34.1	-5.5	-4.5	-30	-7.4	-16.3	-3.8	37.5
7th	2.3	-11.1	8.7	-7.6	-8.6	-2.8	12.7	15.9	6.6	8	-14.5	-16.8
8th	0.6	-49.7	-141.5	-133.2	7.8	-19.9	-139.1	-141.1	-113	-136.8	-49.9	-83.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1358.6	-453.1	0	-5221.6	0	-542.2	-68.6					
RMS	1767.5	80.5	0	3162.3	0	81.6	11.2					
1/2 P-P	3664	167.9	0	5008.4	0	167.5	21					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	855	-1079.7	-70.9	67.6	0	2252.9	3823.2	-52.5	-86.8	-10.5	-10.9	
2nd	302.8	-86.2	-25.8	17.1	0	-338.5	-146.7	29.6	-8.5	2.4	-2.6	
3rd	401.9	250.6	39	0.7	0	-67.5	269.2	9.8	-31.7	0.7	0.7	
4th	1053.8	-1570.2	4.8	23.7	0	15.2	33.1	11.6	21.5	-0.1	-0.1	
5th	446.7	466.4	-2.4	12.1	0	161.1	-122	-14.4	-1.1	0.1	0.2	
6th	-1.2	64.2	-0.8	-7.2	0	-13.3	33.5	-1.5	5.9	0	0.1	
7th	-30.2	-19.5	1.5	-0.5	0	28.1	-11.6	-0.9	-3.5	0	-0.1	
8th	71.4	49.9	-2.5	6.7	0	-118.4	-129.8	-4.6	7.1	0.1	0.1	

MEAN	1838	1480.5	896.8	0	628.4	329.3					
RMS	495.9	294.2	119.5	0	273.8	531.5					
1/2 P-P	872.2	510.7	266.5	0	559	928.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE					
1st	-381.2	-8	-259	-22.4	-102.9	-95.6	0	-95.7	-183.5	-325.7	-338.2
2nd	-167.1	24.4	-100.1	12.1	-52.8	6.4	0	-40.5	10.2	-128.6	19.1
3rd	438.2	-320.5	246.4	-171.6	5.2	-28.3	0	-237.1	136.3	-505.9	257
4th	102.6	36	56.9	11.9	8.5	-24.3	0	-62.3	-51.3	-84	-13
5th	7	-82.2	0.9	-29.1	-15.9	36.1	0	-27.2	118.9	21.4	-7.7
6th	47.3	-17.1	18.7	-6.4	-21.6	3	0	-65.3	16.6	43	4.6
7th	7.8	-4.4	1.1	-1.5	-10.7	2.4	0	-18.3	5.7	21.1	0.7
8th	-4.9	-32.3	-6.3	-9.1	-10.7	25.8	0	-7.5	48.8	24.3	-58.1

Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
40/19					

MEAN	-60.9	-429.5	-763.9	-4910.3	-2453.9	-462.1					
RMS	644.8	715.1	679.3	4130.9	1935.1	78.8					
1/2 P-P	1273	1527.6	1413.7	6415.7	3751.9	161.5					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE					
1st	-400	-309.6	-251.7	15.8	-81.8	-4811.4	3229.1	-465.7	1025.3	71.7	-38.8
2nd	-483.1	20.1	-706.1	45.6	-691.7	16.7	518.3	378.4	-174.3	-15.3	25.1
3rd	-402.4	300.5	-368.9	289.9	-398.2	244.2	347.5	-636.7	-291.6	-46.9	-3.3
4th	103.1	87.7	239.6	56.2	308.4	28.7	-119.8	1383	-1836.4	35.1	20.2
5th	53.3	-232.7	114.6	-237.2	206.2	-215.9	144.8	-299.1	-325	8.3	-19.6
6th	98.7	-31.3	12	-30.9	-59.5	15	-18.7	-13.7	6.1	2.4	-6
7th	17.3	4.8	-27.9	-6.3	-120.2	45.7	36.1	-7.8	18.8	-8.1	-5.6
8th	-24.9	12.1	-4.6	86.6	-7.8	69.7	-153.1	169.5	95.1	2.4	11.6

RUN/POINT 40/19	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1794.9	-2681.2	1901.8	-3253.4	-335.7	-40.5						
RMS	442	4144.7	458.5	4183.9	3523.9	2298.4						
1/2 P-P	762.5	6286.9	814	6573.8	5616.8	4446.1						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	30.6	-79.5	-2797.6	-5099.2	168.7	31.6	5002.9	-3070.7	4239.6	-2531.9	2236.3	-1708.3
2nd	161.7	-30.7	-441.2	-226.2	-180.8	22.4	502.1	267.3	429.1	219.7	376.3	37
3rd	-354.1	-451.6	46.2	-378.9	-460.2	348.3	-339.3	-44.4	-238.1	0.3	217.9	211.5
4th	110.8	38.8	-106.6	195.5	109.7	37.8	47.6	-37.4	187.1	-257.2	770.6	-1290.3
5th	81.4	-10.8	-98.5	131	-1.3	91	-179.3	-88.4	-87.7	-28.9	226.5	259.7
6th	-53.6	13.3	45.1	-8.2	41.8	-9	-13	-6.1	-15.4	3.7	-4.3	41.8
7th	-4.7	-14.2	12	-6.1	-6.9	4.2	8.8	5.3	6.2	0.6	-19.5	-20
8th	-7.7	-48.8	-168.6	-98.9	3.5	-14.3	-177	-123.7	-147.8	-125.4	-64.8	-79
RUN/POINT 40/19	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1292.5	-453.7	0	-4603.1	-547.5	-59.1						
RMS	2017.2	81.2	0	4187.9	84.2	17.3						
1/2 P-P	4195.9	164.3	0	6473	164.7	28.6						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1159.1	-1321.9	-76.9	56.6	0	0	2753.1	5201	-41.2	-95.7	-18.8	-14.9
2nd	357.6	-97.3	-12.2	25.8	0	0	-437.6	-241.1	17	-16.3	1	-3.6
3rd	529.1	287	39.2	-3.6	0	0	-83.8	321.6	4.2	-30.5	0.3	0.5
4th	926.8	-1827.2	22.1	27.3	0	0	34.2	15.1	24.7	26.1	-0.2	-0.4
5th	427.6	370.9	-6.3	16.1	0	0	140.5	-119.3	-16.8	-6.5	-0.3	0
6th	6.7	56.7	-4.2	-5.6	0	0	0.9	5.5	0.7	6.6	-0.3	0.1
7th	-32.6	-14.4	3.6	-0.1	0	0	34.6	-2.7	-1.5	-3.5	-0.1	0
8th	77.5	30.6	-0.8	6.9	0	0	-144.2	-103.4	-3	8.7	0.1	0.1

RUN/POINT 40/20	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3260.5	235.6	2365.6	1255.1	0	0	762.7	524.8				
RMS	712.2	432.6	432.6	152.7	0	0	267	575				
1/2 P-P	1287.5	789.4	789.4	316.7	0	0	573.1	1014				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-608.4	235.5	-403.7	135.3	-155.3	0	0	0	-113.4	-176.7	-431.3	-327.4
	-500.5	137.1	-302.2	73.9	-111.9	0	0	0	-6.5	5.7	2.3	-25.6
	383.6	-387.9	216	-208.4	-0.6	-33.4	0	0	-212.3	167.2	-477.9	364.6
	101.1	40.2	55.8	13.3	8.6	-33.6	0	0	-64.5	-63	-80.9	-16.6
	-65.1	-28.5	-25.7	-9.8	17	20	0	0	73.6	53.6	12	-19.5
	32.6	-14.5	11.3	-7.1	-19.9	0.8	0	0	-52.4	14.6	41	0.3
	18.7	-1.1	4.2	-1	-16.3	-1.6	0	0	-37.1	-0.9	32.2	6.9
	-24.2	-6.4	-4.1	-0.9	24.7	9.9	0	0	42.5	11.5	-46.1	-23.8
RUN/POINT 40/20	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	55.9	-388.6	-877.5	-2919.2	-2253.3	-449.1						
RMS	677.9	763.1	728.6	5692.1	2217.9	126.3						
1/2 P-P	1387.4	1697.1	1538.2	8861.4	4519.2	298.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-522.5	-280.2	-404	-238.1	-1.6	-102.8	5024.2	1380.5	-507.4	90.9	-12.9	
	-478.5	-26.7	-779	29.1	-800.1	41.4	58.4	-171.9	448.6	115.6	35.9	
	-349.9	367.6	-345.2	339.7	-408	267.9	80.3	-242.9	-759	-20.1	-71.4	
	121	147.3	266	102.5	312.9	54.9	128.5	-2054.6	1508.2	20.7	-28	
	-126.5	-107.5	-52.7	-60.6	120.2	-94.5	-17.7	-149.8	-330.9	-24.6	-13.6	
	76.6	-34	-10.6	-16.2	-28.8	42.2	30.4	-30.6	-53.3	-10.8	8.2	
	32.1	22	-34.5	-11.7	-144.9	30	9.9	-14.6	-31.8	4.2	3.1	
	1.9	4.6	78.1	33.9	37.4	-2	2.7	0	90.9	6.4	-6.6	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
40/20												
MEAN	3326	-719.2	3400.9	-1492.9	1235.3	607.2						
RMS	548.1	5912.1	634.2	5751.1	4851.8	2967.7						
1/2 P-P	1087.8	8955	1211.6	8968.3	7651.6	5830.5						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-162.9	-172.9	-4344.5	-7070	353.8	-168.4	6354.7	-4949.9	5412.6	-4107.9	2785.9	-2632.2
2nd	372.1	-37.1	-785.4	-248.1	-494.8	85	976.3	162.2	808.4	149.3	578	-1.6
3rd	-386.1	-468.6	61	-485.1	-431.2	429.3	-430.8	-0.2	-293.7	43.7	300	220.6
4th	138.5	31.1	38	214.5	116.2	46.5	-28.7	-37.4	123.7	-266	715.5	-1322.2
5th	13.5	-84.5	0.3	163.3	64.5	39.3	-155	17.3	-67.7	28.1	268.8	127.2
6th	-50	18.7	21.4	-54.6	37.8	-3.8	-21.2	0.3	-23.5	-1.4	-0.3	-27.6
7th	-1.5	-26.6	0.5	-22.6	-27.5	0.3	-55.9	-1.2	-43.1	-4.8	1.7	0.9
8th	-14.5	8.9	-96.9	6	2.2	4	-95.2	12.5	-89.3	3.6	-57.5	-0.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
40/20												
MEAN	-1002.1	-438.4	0	-2751.3	-538.8							
RMS	2358.8	119.8	0	5999	114.7							
1/2 P-P	4958.9	249.3	0	9109	272.3							
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1377.5	-1942	-92.7	32.3	0	0	4344.7	7216.5	-18.6	-113.9	-46.5	-27.8
2nd	462.1	-122.2	103.6	49.5	0	0	-826.1	-251.8	-70.9	-53.1	-8	-3
3rd	687.4	277.3	13.6	49	0	0	-115.7	405.3	26.2	12.5	-1.8	1.3
4th	883.7	-1873.2	18.6	-28.8	0	0	98.4	63.6	43.4	-15.5	-0.9	-0.1
5th	438.3	145.1	22.3	19.8	0	0	34	-167	-28.1	12.6	0	0.2
6th	11.8	-31.4	-10.8	11.1	0	0	-2.7	5.1	15.1	-6.6	-0.1	0.1
7th	41	0.2	-5.5	-5	0	0	-39.2	24.1	-7.8	-1.1	0.1	0
8th	23.5	-1.4	4.7	1.2	0	0	-87.1	4.4	6.4	-0.6	-0.3	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$						
MEAN	-3438.8	-1819	-494.5	100.6	83.2	-363.2						
RMS	470.8	272.8	99.6	136.7	171.7	369.6						
1/2 P-P	889.6	480.8	266	325.6	409.2	764.4						
HARMONIC												
1st	COSINE 69.7	SINE 103.3	COSINE 51.2	SINE 32.5	COSINE 48.8	SINE -46.9	COSINE 68.6	SINE -115.1	COSINE 86.9	SINE -140.6	COSINE 277.5	SINE -217.5
2nd	COSINE 565.2	SINE -218.1	COSINE 336.6	SINE -118.4	COSINE 92.5	SINE -32	COSINE -54.6	SINE 25.3	COSINE -105.8	SINE 47.7	COSINE -297.5	SINE 124.8
3rd	COSINE -233.8	SINE 39.7	COSINE -128.1	SINE 17.7	COSINE -12	SINE 5.2	COSINE 62.9	SINE -2.9	COSINE 92.8	SINE -2.8	COSINE 190.9	SINE 48.5
4th	COSINE 7.8	SINE -17.2	COSINE 4.4	SINE -8.8	COSINE -4.3	SINE 1.4	COSINE -16.4	SINE 5.8	COSINE -22.6	SINE 9.9	COSINE -10.5	SINE 13.1
5th	COSINE 17	SINE 32.1	COSINE 10.2	SINE 14.1	COSINE 4.8	SINE -9.3	COSINE -3.2	SINE -32.2	COSINE -10	SINE -39.4	COSINE -7.8	SINE -4.6
6th	COSINE 2.7	SINE 7.4	COSINE 1.8	SINE 5.2	COSINE 1.9	SINE 3.2	COSINE -1.4	SINE -0.3	COSINE -2.5	SINE -3.3	COSINE 1.8	SINE -2.7
7th	COSINE -1.6	SINE 4.6	COSINE 3.5	SINE 3.6	COSINE 10.8	SINE 2.1	COSINE 12.1	SINE -1.1	COSINE 8.7	SINE -2.7	COSINE -17.9	SINE -4.9
8th	COSINE 32.3	SINE -19.4	COSINE 2.7	SINE -2.9	COSINE -37.6	SINE 15.3	COSINE -67.8	SINE 26.7	COSINE -62.9	SINE 26.6	COSINE 82.3	SINE -11.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-478.8	-471.4	-156.2	-9325.6	-2810.3	-327.8						
RMS	371.9	285.6	176.3	763.5	274.1	106.6						
1/2 P-P	674.8	584.8	432.6	1338	626.6	175.8						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	339.1	-210.2	248.2	-169.7	50.9	-45	10.2	-213.5	-134.6	57.6	-128.4	
3rd	-239.5	177.4	-103.1	166.8	48.5	60.8	-396.3	127.2	-40.8	-38.7	-4.4	
4th	118.7	68.3	47.3	88.3	26.2	112.4	73.6	-47.5	32.7	23.8	8.8	
5th	4.8	-20.4	7.7	-37.5	-45.8	-35	23.1	18.6	-212.1	-10.9	23.4	
6th	7.7	56.9	15.4	72.7	24.8	42.3	-19.5	-32	42.8	-1.4	-1.2	
7th	7	-1.2	-1.7	-7	-3.8	8.5	-14.3	0.9	21.1	1.2	1.5	
8th	8.1	0.6	26.2	-8.3	11.5	-18.2	-3.2	-21.9	8.4	19.1	-1.8	
	-22.4	5.9	-91.9	34.4	-92.6	33.8	17.4	-34.8	-6.6	33.2	-1.9	2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3610.1	-6872.3	-3608.5	-7329.1	-3986.3	-1508.7						
RMS	517.4	700.1	573.9	767.1	632.8	374.6						
1/2 P-P	934.3	1237.1	1014.1	1380.8	1079.2	694.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-9.1	386.6	868.6	-191.8	-500	-71.2	285.5	916	213.9	779.9	273.9	398.1
2nd	-532.4	223	368.8	-138.1	547.1	-227	-434	165.6	-331	110.8	-123.5	30.1
3rd	64.8	201.6	-53.6	-41.6	212.6	-54.1	-66.7	65.7	-43	45.6	6.9	8.6
4th	8.1	-12.1	32.8	22	17.7	-9.7	-9	0.3	-26	11.8	-106.4	66.2
5th	-5.5	41.1	38.8	-48	-22.5	-16.2	33.5	33.8	14	22.9	-45.6	-32.3
6th	-2.9	-8.2	3.9	20.6	8.2	3.8	5.1	-6.5	7.3	-3.2	-12	16.3
7th	4.8	7.3	6.6	-10.7	-1.5	-9.8	11.9	-9.8	6.7	-10	-9.5	-14.6
8th	33.7	-56.7	11.2	-44.6	37.7	-26.2	11.6	-58.5	9.9	-45.4	6.5	-29.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1912.4	-327.6	-3362.2	-8634.1	-375	-69.7						
RMS	305.7	124.7	507.9	775	107.8	7.7						
1/2 P-P	647.9	199.5	869	1393.7	174.2	20.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	273.7	225.6	-65.2	153.7	105.3	-277.7	-991	48.3	-131.3	-64.5	5.2	-4.1
2nd	-21.3	-21.9	-40.9	-2.4	-559.3	228.6	403.4	-116	29.3	5.1	-0.3	-2.3
3rd	29.4	-14.6	-26.4	-1.2	-52	-233.9	52.8	70.7	-5.4	14.8	1.6	4.6
4th	-146.7	93.2	-9.4	26	8.1	-14	4	-14.8	-7.1	21.7	-4.1	3.9
5th	-78.5	-52.9	3.2	2.7	29.9	-18.6	-66	42.4	-2.7	0.7	-1.7	-0.3
6th	-9.9	23	1.6	-1	-9.6	-3.6	10.5	-1.5	-3	1.2	0.7	0.3
7th	-9.7	6.8	-3.5	0.9	-6.3	-3.4	-1.6	-23.2	0.5	3.7	0.5	0.9
8th	-10.5	32.1	-1.3	3.1	29.5	-39.9	19.1	-45.7	-2	5.6	-0.4	-0.3

RUN/POINT 17/13	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	-2220.3	-1064.4	-179.9	238.5	191.7	-249.7					
RMS		428.1	262.4	123.1	140.6	170.2	342.7					
1/2 P-P		722.8	451.9	242.7	319.6	354.6	674.5					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-66.5	-219.8	-37.3	9.2	-139.6	39.5	-163.2	55.6	-182.4	193.1	-270.9
	2nd	526.3	-167.3	311.7	81.4	-25.1	-61.3	17.9	-115.1	34.8	-328.1	86.2
	3rd	-74.3	-12.5	-39.3	-4.1	-0.8	13.6	5.7	17.5	12.7	17.8	71.8
	4th	24.9	3.9	13.5	-2	0.8	-20.6	-4.7	-32.2	-4.1	-17.2	5.5
	5th	26.9	4.9	12.4	-4.5	2.8	-24	-0.6	-34.3	-1.2	2.2	-2.2
	6th	3.2	-1	3.4	3.7	3.4	0	3.6	-3.3	3	1.5	-0.8
	7th	-6.6	1.5	-0.4	9.1	6	11.7	5.8	9	4.2	-14.3	-7.8
	8th	25.6	3.4	4.2	-23.8	-2.6	-47.6	-7.8	-47.5	-7.7	51.3	24.6
RUN/POINT 17/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	-454.1	-546.1	-349.2	-9159.9	-2804	-368.7					
RMS		358.1	290.8	165	699.7	282.6	105.7					
1/2 P-P		706.8	604.6	389.9	1320.5	623.3	183.7					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	225.4	-251.1	175.1	-187	-39.1	-715	-500.4	-334.9	2.7	66.5	-121.5
	2nd	-322.8	128.6	-227.6	112.2	40	-403.8	163.3	98.3	-64.8	-44.2	-8.5
	3rd	-31.8	109.9	-72.9	132.8	124.1	73	-26.8	-23.4	24.5	14.1	16.1
	4th	14.6	12.5	27.7	15.2	27	-6.1	-10.3	39.6	-36.5	-19	12.1
	5th	57.9	-9.8	68.3	-15.2	-10.6	-30.1	5.7	69.2	-18.3	1.1	-7.4
	6th	11.1	-19	7.7	-26.1	-18.5	11	-5.2	-15.7	5.2	5.2	-1.2
	7th	-0.6	-7.4	20.5	-14.1	-15.4	-26.5	-8.2	22.9	9.1	0.5	1.8
	8th	-19.1	-6.4	-65.8	-11.4	-2.7	15.2	-24.7	-10.9	25.4	-3.2	1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
17/13												
MEAN	-2364.6	-6712.2	-2341.1	-7213.7	-3833.3	-1528.8						
RMS	475.6	855.8	489.5	907.8	755	483.5						
1/2 P-P	890.6	1506.7	883.6	1619.2	1327.1	899.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 4, r/R=0.400		Blade 1	
1st	309.2	277.5	-1019	243.7	1073.4	495.5	893.6	450.9	644.1	159.2		
2nd	-489.1	173.4	-184.8	-179.9	-412.4	213.5	-307	151.6	-67.1	38.7		
3rd	0.7	54.4	-54.1	0.4	-65.6	44.5	-45.7	33.7	4.4	17.2		
4th	21.9	5.1	-3.5	13.6	-1	2.5	4.2	-7.3	24.3	-46.9		
5th	28.7	50.1	-16.8	18.4	56	-12.3	28	1	-83.2	42.4		
6th	-6.1	-3.7	16.8	8.2	0.7	-19.5	3.3	-10.6	-11.8	23.3		
7th	-1	7.9	-32.9	-4.4	-23.8	15.7	-22.1	6.9	-12.6	-16		
8th	49.4	-18.4	17.6	-0.7	21.9	-30.8	17.7	-24.4	14.3	-18.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
17/13												
MEAN	-1958	-364.3	-2144	-8509.2	-423.2	-70.2						
RMS	383.2	123	429.7	827	106.2	11.4						
1/2 P-P	801.6	196.9	725	1519.7	170.1	24.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	491	42.1	-74.1	145.9	-204.4	-170.8	-611.9	884.4	-122.1	-74	9.7	-8.9
2nd	48.1	-38.6	-46.1	-6.6	-508.2	177.3	393.6	-166.6	33.6	8.1	-2.1	-2.6
3rd	32.6	0.2	-17.8	-12.5	19	-68.8	28	71.8	-14.7	7.5	2	6
4th	17.9	-84.3	-22.1	14.1	29	12.3	3	-9.7	-20.5	8.6	-4.2	1.3
5th	-133.5	69	0.4	8.3	-3.3	-21.5	-12.1	28.3	-7	0.9	1	-0.6
6th	-1.3	33.8	4.9	-0.6	-2.6	-3	12.1	16.2	-5.7	0.8	1	0.1
7th	13.5	-16.9	-1.8	-2.1	-3.3	-7	-17.2	-2	-2.8	1.7	0.5	0.9
8th	-12.2	9.5	-3.9	1.8	27.1	-17.9	17.9	-28.1	-4.5	3.5	-0.7	-0.8

RUN/POINT 17/14	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-934.9	-266.2	149.5	377.9	297.8	-143.1						
RMS	357.7	223.4	121.1	150.4	182.4	359.9						
1/2 P-P	643.9	407.9	281.7	307.7	343.5	664.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-75.1	-203.4	-51.7	-159	-0.9	-143.5	13.5	-176.3	22.5	-197.4	114.3	-322.1
2nd	427.7	-117.4	250.4	-62.4	53.2	-19.5	-77.5	10.6	-127.3	26.5	-334.4	52.7
3rd	88.2	-21.6	48.9	-12.5	-1.3	-5.1	-44.8	2.8	-63.7	12.5	-140.6	58.2
4th	29.9	18.8	16.3	10	-2.2	-3.2	-23.3	-13.3	-32.9	-12.4	-24.5	7.8
5th	-5.9	4.4	-2.3	3.4	2.1	3	3.6	1.3	3.9	1.3	2.6	6.5
6th	8.9	7.3	5.5	3.8	0.7	0.4	-7.4	-5.2	-9.9	-7.2	6.7	10.5
7th	5.8	-6.7	4	0.2	0	8.3	-6.7	13.9	-9.7	14.4	11.1	-13.6
8th	6.4	8.9	2.5	-0.2	-0.9	-13.4	-5.5	-22.7	-7.7	-23.1	-7.8	22
RUN/POINT 17/14	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-433.2	-635.1	-552.2	-8958.2	-2813.2	-415.4						
RMS	401.9	359.7	240	1410.1	535.2	106.1						
1/2 P-P	822.8	758.6	659.8	2130.2	1338.4	174.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	121.5	-315.4	111.1	-233.3	26.2	-57.7	-1951.9	-40.1	-511.9	162.5	77.9	-113.7
2nd	-380.3	79.7	-335.7	62	-133.7	22.1	-312.9	180.3	192.7	-98.2	-45	-8.5
3rd	-178.2	109.4	-198.5	139.1	-188.8	114.3	93.6	-8.9	-86.4	-65	8	16.8
4th	22.5	39.3	55.5	54.3	40.4	67.6	-12.4	-28.4	322.1	-284.7	-28.1	-5.7
5th	1.3	-25.8	-1.4	-44.5	26.8	-38.2	39.9	13.8	-98.8	-67.3	4.1	-5.5
6th	20.7	-17.3	22.5	-30.4	8.6	-42.5	-8.1	-20.9	-16.6	26.8	5.6	3
7th	-1.7	-9.8	3.1	7.5	2.9	17.6	19.9	-1.5	-21.1	10.6	-2.3	2
8th	-2	-10.8	-2	-29.9	7.5	-24.6	2.4	-11.1	6.2	12.8	-3.9	-2.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1077.7		-6486.8		-1034.3		-7017.8		-3591.1		-1477.8	
RMS	426.4		1660.8		432.8		1741.8		1454.7		943.6	
1/2 P-P	836.2		2505.7		833.6		2618.6		2163.8		1642.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Pitch Link, lb	
1st	303.9	298.3	50.2	-2316.1	-338.1	254.3	2423.9	34	2029.2	73.1	1261.3	-101.1
2nd	-386	127.6	252.8	-232.4	408.2	-117.1	-298.3	254	-209.2	189.4	60.1	54.5
3rd	-16.3	-106.7	-17	-84.1	-103.9	9.4	-90.5	28.4	-71.9	31.4	-2.6	79.3
4th	30.3	19.5	-30.9	1.4	31.7	28.5	4.1	7.6	47.6	-47.2	241.2	-284.3
5th	19.5	10.9	-19.3	12.9	-6.9	2.2	-19.5	-6	-9.4	1.1	22.8	33.8
6th	-10.6	-7.7	3.4	23.4	7	4.5	5.2	-16.4	2.4	-7.2	-26.9	24.8
7th	-4.4	3.1	20	9.3	-6.4	5.1	30.3	24.3	21.6	16.1	0.6	-15.9
8th	32.6	-10.2	-3.3	-10.5	14.8	5.8	11.4	-21.7	11.1	-15.8	12.3	-11.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1989.3		-409.7		-865.8		-8340.4		-478.9		-69.9	
RMS	742.4		122.6		370.8		1583.3		106.8		11.9	
1/2 P-P	1517.8		191.6		762.5		2410.9		177		23.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Pitch Link, lb	
1st	848.4	-171.8	-84.6	138.3	-215.2	-164.1	-172.2	2193.8	-112.1	-85.8	11.4	-7.9
2nd	163.5	-42.9	-43	-6.9	-415.4	116.9	313.2	-197.7	36	9.6	-4	-1.8
3rd	62.6	96.8	-12.4	-18.2	24.6	99.9	7.4	93	-13.5	1.5	1.5	4.4
4th	297	-437.7	-32.6	-8.3	31.8	33.1	-9.7	12.6	-31	-10.1	-4.6	-2.4
5th	53.5	55.3	-5.5	6.6	4.1	12.9	-11.5	-25.3	-5.1	-4.6	2.2	-0.9
6th	-32.8	32.3	4.9	3.1	-8	-6	-4.7	9.8	-5.2	-3.7	0.9	1.2
7th	-8	-23.6	1.6	-3.1	6.6	0.4	29.1	15.7	-3.6	-1.9	-0.7	0.2
8th	-3.1	7.9	-5.2	-1.8	17.1	-2.3	10	-11.1	-4.8	-0.7	-0.2	-1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-501.4	-6349.3	-437.7	-6896.4	-3466.1	-1452.9						
RMS	341.8	1978.3	325.6	2042.7	1713.1	1113.3						
1/2 P-P	733.1	2895.5	709.8	2967.1	2519	2005.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	259.5	178	-2762.2	-162.3	195.7	2845.4	-316.7	2393.3	-219.3	1441.2	-278.8	
2nd	-307.7	106	-255.1	331.5	-100.6	-193.4	264	-124.8	201.7	129.4	50.1	
3rd	-24.6	-137.5	-105.3	-139	13.2	-105.7	33.9	-85.4	40.2	3.2	114.4	
4th	45.8	28.9	9.5	50.2	38.3	7.2	5.7	77	-60.2	373.3	-339.2	
5th	31.1	34.2	-9.4	-24.3	5.5	0.4	-31.3	1.1	-14.2	-8.8	58	
6th	-11.7	-3.7	21.6	10	1.5	10.3	-19.9	3.3	-9.5	-40.5	24.1	
7th	-5.5	-0.2	30.4	-13.2	4.8	21.4	44.5	12.3	31.1	-5.1	-16.6	
8th	41.1	-4.2	-16.8	22.3	14.4	32.9	-23.5	30.6	-15.4	25.7	-8.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1983	-425.7	-294.2	-8220.6	-499.8	-68.3						
RMS	894	120.5	290	1918.1	105.4	10.5						
1/2 P-P	1925.2	196.6	648.3	2810.3	172.8	23						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	939.9	-292.9	-91.2	130.6	-144.4	-66.2	2687.2	-103.8	-92.3	8.7	-6.3	
2nd	222.4	-52.9	-43.6	-5.6	-329.1	97.6	-217.7	36.9	7.9	-5.1	-1.5	
3rd	81.8	139.5	-8.9	-20.1	33.5	129.6	113.4	-16	-1.1	1.2	4.3	
4th	480.9	-527	-29	-11.6	48.2	43	5	-26.7	-13.1	-3.6	-3.1	
5th	2.5	106.7	-8.6	6.1	-3.5	-12.1	-6.9	-5	-8.4	2.8	-1.4	
6th	-52.6	33.2	3.5	2.8	-12.3	-4.6	7.8	-5.2	-2.4	1.2	1.1	
7th	-5.8	-41.2	3.3	-1.1	4.5	4.1	30.8	-2.7	-3.1	-0.8	-0.5	
8th	-10.5	8.2	-5.6	-2.5	24.1	-8	-7.2	-5.1	0.1	-0.1	-1.9	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	179.1		-6051.5		260.2		-6604.2		-3174.2		-1347.3	
RMS	371.9		2696.5		336.8		2813		2358.6		1518.7	
1/2 P-P	773.7		3926		750.5		4095.6		3496.9		2829.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	361.1	150.8	-1064.8	-3639	-134.1	278.4	3793.6	-1122.1	3196.4	-883.7	1867.3	-703.3
2nd	-252.3	73.4	28.6	-308.3	264.2	-76.8	-64.4	323.3	-13	253.6	228.9	67.3
3rd	-86.6	-193.5	-31.5	-176.2	-200.2	74.3	-171.1	34.3	-129.8	44	39.9	147.5
4th	45.9	30.3	-60.7	44.2	51.1	41.7	34.6	2.2	112.6	-104.4	445.9	-566.2
5th	-17.1	37.6	30.7	30	-17	-38.3	-45.6	18.5	-26.1	9	49.4	-18.1
6th	-17.8	-1.7	-9	37	14.9	-1.7	21.5	-15.4	9.7	-7.5	-47	20.1
7th	-10.4	-2.4	-5.9	-20.5	-12.9	9.5	16.5	20.5	12.7	10.7	3.1	-27.3
8th	20.9	-1.5	22	-31.6	21.5	9.8	29.5	-33	27.4	-22.6	33.2	-14.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1968.8		-448		380.5		-7955.9		-529.7		-67.7	
RMS	1221.4		120.7		311.5		2663.7		107.1		9.7	
1/2 P-P	2625.7		200.6		700.6		3859.4		179.3		21.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1169.8	-592.7	-105.6	120.8	-244.9	-39.6	924.8	3632.5	-93.2	-106.7	8.1	-4.2
2nd	325.6	-56.6	-41.1	0.9	-273	71.5	80.9	-275.2	38.1	5.4	-6	0
3rd	164.9	177.3	-9.5	-24.4	95.2	185	7.8	177.2	-17.6	0.4	0.9	4.1
4th	553.1	-856.9	-21.3	-12.9	52.3	41.8	-2.9	7.3	-18.6	-14.2	-2.3	-3.2
5th	101.9	-13.5	-12.5	6.9	31.2	-23.2	-34	-26.8	-6.7	-14.8	3.4	-1.8
6th	-69.5	35.1	0.7	1.9	-21.5	1.6	-16.1	1.7	-1.9	-0.8	0.9	0.7
7th	3.8	-30.4	5.4	-1.2	12.1	5.7	30.1	11.5	-2.1	-5.8	-1.7	-1
8th	1.2	16.2	-6.8	-1.4	23.6	-0.7	33.9	-23.5	-6.6	-0.4	0.3	-2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570																	
17/17																							
MEAN	1611.5	1314.2	797.4	660.5	518	93.5																	
RMS	320.1	202	138.7	213.7	253.3	490																	
1/2 P-P	619.2	415.3	329.4	538	606.8	944.1																	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE																	
1st	-224.5	-134.8	-163.9	-110.1	-49.1	-142.1	-36.9	-91.2	-125.5	-40.6	-16.2	-11.8	-6.1	-18.2	-21.2	-35.6	22.9	-45.3	-60.5	-49.7	50.4	64.2	-59.9
2nd	68	-29.2	31	-15.1	-32.2	0.7	-5.6	-91.2	-125.5	-40.6	-16.2	-11.8	-6.1	-18.2	-21.2	-35.6	22.9	-45.3	-60.5	-49.7	50.4	64.2	-59.9
3rd	314.2	-126.1	173.6	-67.7	0.7	5.1	-16.1	-91.2	-125.5	-40.6	-16.2	-11.8	-6.1	-18.2	-21.2	-35.6	22.9	-45.3	-60.5	-49.7	50.4	64.2	-59.9
4th	91.7	38.2	50.2	16.6	5.1	-18.7	-16.1	-91.2	-125.5	-40.6	-16.2	-11.8	-6.1	-18.2	-21.2	-35.6	22.9	-45.3	-60.5	-49.7	50.4	64.2	-59.9
5th	12.6	13.6	3.7	4.2	-6.1	-11.8	-11.8	-16.2	-48.9	-28.9	-18	-28.9	-30.6	-51	-71.7	-0.1	22.8	10.7	42.6	49.3	64.2	-59.9	-59.9
6th	33.6	-3.6	11	0.6	-18.2	0.5	0.5	-48.2	-3.5	-3.5	-56.1	2	2	42.6	49.3	64.2	22	2	42.6	49.3	64.2	-59.9	-59.9
7th	23.3	-14.5	6.3	-7.3	-21.2	0	0	-40.3	8.2	8.2	-39.5	16	16	49.3	64.2	-59.9	22	2	42.6	49.3	64.2	-59.9	-59.9
8th	22.3	-31.3	-0.3	-6.5	-35.6	22.9	22.9	-60.5	45.3	45.3	-49.7	50.4	50.4	64.2	-59.9	-59.9	22	2	42.6	49.3	64.2	-59.9	-59.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
17/17												
MEAN	-390.6	-781.8	-917.7	-7650.6	-2700.6	-472.6						
RMS	603.7	621	485	4126.7	1696	112						
1/2 P-P	1316.2	1400.7	1402.1	6245.8	3697	186.8						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-68.2	-409.6	-2.3	-311.5	-1.6	-101.3	-5279.1	2416.2	-952.4	810	121.2	-84.5
3rd	-532.7	-18.8	-609.8	-43	-385.9	-28.3	245.7	333.4	492.8	-150.2	-27.7	13.7
4th	-429.1	220.2	-405.4	257	-372.4	179.9	329.4	19	-374.8	-336.9	5.8	33.7
5th	32.6	75.1	98.5	95.1	94.3	102.1	-32.9	-21.3	1407.4	-1226.5	8.8	-7.5
6th	69.7	1.8	84.6	-25.9	123.2	-37.7	81.9	60.7	-245.4	-216.3	20.9	-10.4
7th	76.7	-40.4	83.5	-41.2	49.7	-51.3	-7	-36.8	-51.5	50.1	0.8	-2.8
8th	2.7	-13.6	-39.1	-10.1	-57.3	18.8	8.2	23.4	-2.2	18	-4.7	-1.9
	-21.9	24.4	-82.2	91.9	-92.1	89.7	-82.7	-165.9	124.3	161.8	-6.3	4.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1493.2		-5286.2		1596.6		-5660.4		-2343.9		-1051.3	
RMS	348.7		4233.4		316.2		4290.8		3610.2		2384.2	
1/2 P-P	781.3		6242.9		711.3		6537.5		5654.7		4582	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	224.9	184.5	-2093.1	-5573.5	-101.9	147.4	5545.5	-2374.7	4685.3	-1928.7	2662	-1372
2nd	-77	41.1	-246.7	-396.9	52.6	-36.9	219.8	442.4	221.8	362.1	414	125.3
3rd	-142.9	-334.3	-3.2	-305.9	-356.9	131.5	-315.8	27.1	-242.4	58.2	50.8	280.5
4th	88.5	32.4	-109.1	88.1	99.6	47.5	99.8	11.6	253.1	-185.7	931.4	-1077.3
5th	19	23.5	-19.1	40.4	-4.2	-27.5	-79.5	-71.6	-28.4	-42.6	156.9	86.1
6th	-39.7	17.6	21.2	18	30.8	-8.7	5.7	-26	-3.9	-18.3	-57.6	19.8
7th	-14.9	-23.7	-0.8	10.9	-30.7	15.3	12.1	52.3	3.5	33.8	-1.6	-29.6
8th	14.8	-50.8	-102	-165	31.1	-16.6	-89.7	-162.4	-69	-147.2	-18.8	-73.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1847.2		-467.2		1673.9		-7231.8		-559.5		-58.8	
RMS	2041.3		123.1		300.6		4230.3		113		9.4	
1/2 P-P	4360.3		188.3		719.5		6251.5		179.9		24.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1607.2	-1094.7	-128.2	103.4	-128.9	-86.4	2057.3	5587.5	-75.8	-129.2	-0.4	5.8
2nd	490.3	-41.4	-20.9	20.7	-96.3	27	-183.9	-396.3	29.9	-8.8	-6	3.3
3rd	253.1	371.3	-11	-34.5	149.7	322.3	-8	295	-27	7.7	2.1	5.1
4th	1145.5	-1620.9	-4.3	-10.3	100.3	50.2	12.6	50.4	1.7	-17.3	1.8	-2.1
5th	280.9	174.1	-19	7.8	8.9	-0.2	13.5	-39.7	-9.9	-21.7	4.1	-2.8
6th	-79.8	39	-1.5	-1.7	-36.4	14.3	8.6	9.2	-0.5	2.7	1.3	-0.3
7th	-3.4	-56.8	5.9	1.5	15.9	24.3	14	48.1	-0.4	-5.5	-2.8	-1.4
8th	47.3	69.3	-7.3	5	4.8	-46.7	-76.9	-160.9	-4.6	6.9	0.2	-3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2958	2151.9	1138.3	817.5	645.7	243.3						
RMS	445.8	263.9	159.5	256.3	309.3	607.7						
1/2 P-P	864.2	541.3	364.2	621.1	713.5	1169.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-113.8	-215.7	-149.2	-18.1	-168.5	-33.7	-218.7	-254	-55.6	-464.3		
2nd	-104	-54.5	-32.6	-62.9	-9	-92	2.6	6.5	-318.1	-23.7		
3rd	502.8	-205.2	-108.4	12	-19.9	-181.9	43.3	77.2	-611.6	172.5		
4th	132	47	16.6	17	-31.6	-40.9	-74.9	-81.7	-97.3	-3.5		
5th	9.2	47.6	17.4	-1.4	-27.8	-9.1	-67.7	-77.2	12.8	29.4		
6th	43.5	8.1	6.9	-20	-0.4	-56.7	-13.5	-8.4	54	29.3		
7th	38.9	-18.5	-10.8	-41.3	-3.3	-72	7.8	16.4	81.7	-3.5		
8th	18.2	-9.9	0.5	-30.4	8.1	-53.4	15	22.8	34.6	-25		
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-343.7	-838.7	-1081.7	-6393.4	-2623.9	-462.3						
RMS	743.3	768.2	611.5	6424.8	2910.2	137.9						
1/2 P-P	1647	1746.4	1702.2	9626.6	5954	244.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-138.2	-486.5	-389.4	-31	-156.7	-7722.7	4693.8	1387.6	149.2	-76.4		
2nd	-568.9	-47	-85.1	-496.9	-62.5	413.5	622.8	-114.9	3.2	51.5		
3rd	-622.6	276.2	314.3	-513.6	215.5	438.3	61.9	-562	20.3	56.4		
4th	25.3	113.2	144.2	94.1	137.1	-151.2	13.8	-2256.4	40.5	2.4		
5th	56.2	85.5	78.8	129.3	40.4	113.4	91.8	-262.9	34.4	-13.4		
6th	95.6	-30.1	-20.8	71.8	-28.5	-49.2	13.2	31.3	2.5	-3.8		
7th	12.3	-12.5	-15.4	-113.7	22.9	30	-18.3	53.6	-3.8	-3		
8th	-14.4	17.6	46.2	-103.5	32.5	-216.4	-83.8	76.5	-7.5	4		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	2845.5	-4144.7	2987.2	-4745.8	-1517.7	-810.6						
RMS	529	6528.9	494.6	6355.8	5361	3600.4						
1/2 P-P	1041.5	9713	938.4	9601.6	8375.7	6985.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	322	315.6	-8258.7	194.8	7611.5	-4659.2	6461.3	-3832.4	3623.8	-2553		
2nd	26.2	83	-688.1	-74	445.2	782.1	403.5	645.6	576.1	283.8		
3rd	-210.9	-521.8	-440	208.7	-430.8	8.8	-317.5	70.7	196.7	456.3		
4th	130.4	42.9	199.5	64	204.3	19.3	424	-318.8	1384.4	-1889.9		
5th	-27.1	25.4	-66.6	85.7	-107.7	-82.5	-42.8	-52.8	193.9	72.5		
6th	-42.7	9.9	-14.7	34.7	26.6	21.7	0.3	21.4	-94.5	36.7		
7th	-12.3	-43.7	-36.6	14.8	6.9	9.5	6.1	0.1	2.6	-40.9		
8th	-34.3	-44.6	-54.3	-8.4	-244	-61.4	-209.5	-66.9	-78.1	-18.9		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1789.2	-460.9	3008.7	-5994.2	-567.7	-40.6						
RMS	3197.8	145.9	481.3	6487.1	135.4	22.6						
1/2 P-P	6615.4	255.1	992.6	9722.3	236.4	56.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2149.9	-1946.1	-156	86.6	-217.7	-254.4	8210.6	-59.4	-155.8	-13.1	21.1	
2nd	657.6	46.5	13.9	61.2	14	60.6	-743	13.4	-43.5	-4.1	11.3	
3rd	529.7	617.5	-23.5	-63.2	231.3	503.1	398.8	-51.9	28.9	5.7	8.3	
4th	1661.8	-2818.8	15.3	5.4	154	57.8	68	29.4	-7.2	7.7	-0.7	
5th	359.4	158	-34.3	13.7	45.1	-5.3	-70.1	-15.1	-39.1	6.2	-3.5	
6th	-141.9	45.5	-3.3	-3.8	-50.5	10.7	-45.3	-0.1	4.9	1.1	0.3	
7th	-7	-42.4	8.9	2.4	19.2	43.3	41.6	2.9	-8.3	-4.1	-1.6	
8th	133.5	29.4	-6.5	5.5	-17.8	-44.3	-74.3	-3.1	8.3	-1.2	-4.2	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
28/27						
MEAN	-692.7	-114.1	205.6	319.1	306.7	-107.9
RMS	410.8	256.6	131.6	152.6	181.7	358.2
1/2 P-P	727.3	499.5	302.5	339.9	429.9	700.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-439.6	-16	-278.9	-43.2	-102.4	-96.3
2nd	334.6	-100.8	194.2	-55.2	32.1	-16.4
3rd	109.7	-59.7	61.1	-33.3	-2.6	-8.5
4th	48.3	14.8	27	7.1	-0.4	-7.7
5th	18	13.5	7.1	5.9	-5.8	-4.6
6th	8.9	0.8	4.6	0.5	-1.8	-1.1
7th	4.5	-11.3	2.3	-3	-9.9	17.8
8th	13.9	-4	3.1	-3	-13.5	-2.5
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
28/27						
MEAN	-413.5	-637.3	-593.4	-8153.5	-2673.5	-421.9
RMS	425.4	396.1	313.3	1178.4	635.9	103.2
1/2 P-P	887.5	824.7	865.3	1755.6	1491.7	180.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	53.3	-294.4	72.8	-215.9	28.8	-55.1
2nd	-413.9	80.1	-400.7	63.9	-192.2	27
3rd	-186.6	160	-196	192.8	-189.5	155.2
4th	21.6	36.6	59.7	49.5	49.4	64.9
5th	54.5	-9.8	61.4	-32.2	73.7	-39.8
6th	19	-28.6	24.4	-43.7	11.3	-50.8
7th	-3.5	-7.6	-2.7	7.5	-0.8	17.6
8th	-5.7	-0.7	-28.3	8	-24.3	11.8
				23	-1.2	30.8
				-1.2	30.8	-5.9
				-1.2	30.8	1.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-725.4		-5798.1		-662.1		-6192.1		-2949.7		-1278.8	
RMS	277.6		1322.4		275.2		1478.6		1251.6		839.3	
1/2 P-P	567.8		1993.8		569.4		2226.6		1855.4		1575.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$	
1st	104.1	-143.9	-171.9	-1839	118.5	85.1	2062.7	-172.3	1749.9	-115.3	1058.7	-199.1
2nd	-299.5	97.5	142.2	-169	313.2	-90.4	-124	184.7	-61.9	135.1	155.8	-3.5
3rd	-47.3	-119.8	-33.5	-102.7	-121.1	46.9	-95.8	42.9	-75.8	39.7	18.9	75.9
4th	43.4	14.6	-58.7	10.6	51.6	13.2	25.8	-16	67.5	-77.9	252.6	-369.6
5th	15.8	25.6	-9	5.5	-26.5	-5.4	-17.4	-2.5	-10.7	-0.4	13.4	15.2
6th	-13.6	0	0.3	17.2	9.1	2.2	-1.6	-16.3	-7.2	-7.3	-21.7	33.3
7th	-8.4	1.7	9.4	-9.6	-7.5	11.9	30.3	3.3	20.4	3.3	-2.2	-10.9
8th	32.5	-24.5	10.6	-29.8	26.7	-1.8	21	-39.3	23.1	-32.7	19.7	-7.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1823.3		-413.3		-569.5		-7583.8		-485.5		-41.3	
RMS	715.5		117.8		312.6		1365.5		105.3		8.4	
1/2 P-P	1564.8		198.7		565		2013.4		174.4		22	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$	
1st	691.5	-241.4	-81.6	133.2	-20.2	222.6	85.4	1904.3	-110.7	-83	3.6	0.1
2nd	242.7	-96.9	-42	-3.7	-337.5	98.2	178.3	-165.5	38.7	7.1	-4.2	-0.9
3rd	104.7	89.4	-6.6	-21.5	55	110.4	23.1	109.1	-13.2	-2.5	2.2	5.5
4th	296.7	-531.8	-26.8	-6.2	51.3	22.4	-6.9	22.1	-26.8	-12.1	-3.5	-3.2
5th	42.1	38.2	-8.1	4.4	2.1	-16.6	-17	-4.8	-6.5	-9.4	3.4	-0.7
6th	-27.3	39.3	2	1.4	-9.7	-1.4	-8.3	22.8	-4.6	-1.8	0.7	0.4
7th	-11	-15.4	3.7	-2.2	11	2.3	34.4	-3.3	-5.1	-2.5	-0.1	-1.6
8th	-6.1	15.7	-5.3	1	27.5	-18.2	25.6	-27.9	-5.8	4.2	0.7	-1.4

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/7						
MEAN	-320.8	131.7	336.9	501.4	418	8.8
RMS	358.6	217.5	137.4	219.3	254.5	417.8
1/2 P-P	699.7	401.2	318.1	534.7	557.1	908.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-320.4	-118.3	-203.4	-107.3	-134.2	-185.2
2nd	55.9	-99.6	34.9	-55.2	-8.9	-44.9
3rd	290.9	-122.8	163.5	-66	-18	-108.1
4th	75.1	29.6	42.5	13	-30.3	-27.8
5th	-12.1	-113.7	-6.8	-42.1	47.2	131.1
6th	42	-14.8	16	-5.7	-19.4	10.4
7th	-4.5	-8.4	2.7	-4.4	0.9	5.4
8th	30.7	-59.3	-7.1	-14.1	-49.7	95.5
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/7						
MEAN	-361.6	-653.1	-664.5	-6733.4	-2763.8	-448.7
RMS	503.7	536.7	417.6	1726.9	1143.6	113.6
1/2 P-P	1075.8	1119.8	982.1	3060.8	2564.3	209.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-21.2	-375.4	27.8	-289.6	-462.1	96
2nd	-303.7	100.8	-370.4	68.5	229.8	-41.6
3rd	-315.2	199.7	-272.6	240.5	-261	-32.6
4th	40.1	42.7	105.3	42.6	888.5	-0.7
5th	67.2	-307.2	51	-380.4	-222.5	-2.5
6th	85.3	-29.7	51.1	-29.9	3.7	35
7th	-13.2	-5	-10.8	-3.3	-3.8	-15.9
8th	-60	30.6	-153.6	144.7	184.7	263.2

RUN/POINT 14/ 7	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-448.5	-4467.2	-294.6	-5180	-2073.6	-835						
RMS	324.2	1938.8	306.4	2040.6	1720.9	1276						
1/2 P-P	688.9	3235.6	650.6	3475.8	2953.1	2524.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	216.7	31.8	-954.2	-2518.7	-5.4	171	2629.6	-1052.2	2231.5	-848.7	1339.8	-691.2
2nd	-27.8	90.1	-118.1	-230.3	28.6	-99.6	138.4	260.3	126.7	207.9	195.5	68
3rd	-147.8	-309	11.5	-130.2	-316.7	136	-122	-4.5	-92.1	26.3	62.8	175.7
4th	69.4	29.9	-83	51.7	83.1	34	26	20.7	131.8	-106.5	561.9	-646
5th	118.7	-37.2	-166.5	122.5	30.1	102	-163	-179.8	-80.8	-88.2	164.6	320.6
6th	-44.1	17.2	34.4	25.4	41.8	-13.8	-27.7	-20.2	-18.3	-10.7	15.3	13.5
7th	-4	6.2	10.5	26.1	-0.1	7.9	25.5	27.4	14.5	20.9	-12	-12.7
8th	40	-98.9	-190	-252.5	42.1	-64.3	-180.1	-284.9	-146.3	-264.9	-61.9	-152.3
RUN/POINT 14/ 7	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1751.4	-439.4	-207.9	-6179.6	-514.4	-83.3						
RMS	1236.4	126.7	312.3	1767.5	116.6	10.4						
1/2 P-P	2706.1	229.1	649.7	3069.7	211.4	24.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	826.3	-598.5	-100.7	137.2	-101.6	158.2	873	2288.9	-113.8	-106.4	7.5	-6.6
2nd	212.2	-37.9	-34.1	22.6	-70.6	95.2	-92.3	-221.3	38.2	-12.1	-8.4	2.5
3rd	181.8	228.5	32.9	-3	153.4	302.6	-24.5	120.7	7.2	-28.8	-3.3	-0.6
4th	703.6	-978.5	-6.1	2.7	79.4	33.2	-24.4	35.4	-5.7	1.8	0	-0.2
5th	337.2	525.4	2	2.8	-95.9	50.2	178.2	-129.8	-2.7	4.2	-0.6	-2.4
6th	21.3	25	2.5	-3.8	-41.5	14.9	15.1	16	-4.6	3.6	0.6	-0.6
7th	-23.9	-34.2	0.1	0.6	3	-1.2	22	32.4	-0.8	1.3	-2.2	-0.6
8th	63.4	109.4	-8.2	9.9	12.4	-90	-146.6	-277.5	-8.9	12.3	1.4	-1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
15/ 6						
MEAN	-251.3	170.2	351.4	508.1	420.6	15.7
RMS	413.4	237	111	208.7	248.8	391.3
1/2 P-P	817.8	466.3	268.7	524.8	544.2	824.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-396.3	249.9	-83.6	-40	-6.6	-190.9
2nd	50.5	-69.4	-9	-2.2	-64.5	27.4
3rd	254.9	-142.2	2.8	-16.9	-142.6	57.9
4th	79.7	25.6	6.4	-10.6	-51.4	-32.3
5th	-12.3	-123.4	-10.6	53.6	-8.2	176.1
6th	36.8	-17	-20	-54.6	11.3	16.9
7th	-4.8	-7.7	16.1	22.2	18.1	-2.2
8th	11.8	-65	-45.1	63.6	-53.7	115.5
						101.4
						-115.6
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
15/ 6						
MEAN	-364.5	-650.3	-662.2	-7295.9	-2711.6	-445
RMS	498.8	542.8	420.7	1345.2	1120.1	110.7
1/2 P-P	1072.6	1114.1	983.5	2387.5	2430.4	206
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-21.8	-342.8	27.2	-266.9	-1807.6	243.9
2nd	-309.9	94.6	-378.1	67	116.2	123
3rd	-280.4	222	-237	259.8	137.6	9.9
4th	41.8	50	106	52.8	-72.7	52.2
5th	58.9	-342.7	44.1	-420.6	146.8	227.8
6th	84	-36.8	48.3	-29.1	0.5	-34.6
7th	-9.8	-5.6	1.9	-14.5	-23.6	12.4
8th	-49	44.4	-102.1	179.6	-64.6	189.3
						-290.6
						260.4
						270.7
						-4.8
						9.5

RUN/POINT 15/ 6	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-402.5	-42.8	-4982.9	-2234.9	-308.7	-194.9	-5316.3	-290.2	-2145	-234.4	-716.2	-318.7
RMS	286	58	1632.6	-98.5	304.4	-72.9	1689.5	118	1427.5	127.4	1081.2	13.1
1/2 P-P	603.1	-275.8	2658.4	-3.5	653.6	-134.9	2875.6	-119.6	2443.1	31.8	2131.2	153.6
HARMONIC		78.1		46.2		28.2		17.6		-106.1		-557.7
	1st	127.5	-36.3	128.6	38.7	107.9	-191.3	-42.8	-97.7	-88.2	537.4	332.9
	2nd	-45.6	20.9	7.6	45.1	-11.2	-42.8	-7.3	-29.9	-2.4	17.5	21.1
	3rd	-0.3	3.9	20.2	-1.3	5.9	4.2	7.8	-4	1.3	-19.9	-27.6
	4th	10.4	-104.5	-251.5	15.9	-71.1	-272.3	-296.5	-222.9	-275.3	-100.9	-159.8
RUN/POINT 15/ 6	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1669.3	-346.6	-442.1	-96.5	-165.3	226.8	-6675.5	1986	-512	-103.9	-78.3	1.6
RMS	1096.6	-76.4	124.2	-35.8	358.2	61.8	1451.3	-119.1	114.5	-7.4	8.5	2.3
1/2 P-P	2493.3	188	225.4	36.9	783.8	261.8	2511.7	129.3	200.5	-27.6	19.6	1.6
HARMONIC		-832.5		-4.6		26.9		-30.2		1.2		-0.1
	1st	733.6	525.1	3.6	255.9	55.4	99.5	208.7	-4.7	5.7	4.1	-2.2
	2nd	203.1	12.5	3.8	-68.7	12.4	-86.3	30.6	-4.1	2.5	-8.8	-0.7
	3rd	183	-19.7	-0.1	174.5	-36.5	-10.6	39.7	38.9	1.4	-4.2	-1.6
	4th	675.4	114.3	-5.4	85.4	1.1	-30.2	16.8	-5.6	0.2	0.2	-0.1
	5th	406.3			-103.5	-88.9	208.7	-142.5	-4.7	0.1	0.1	-2.2
	6th	44			-36.5		30.6	39.7	-4.1	0.5	0.5	-0.7
	7th	-11.4			-0.3		-10.6	16.8	-0.7	-0.8	-0.8	-1.6
	8th	103.3			-16.7		-228.5	-287	-4.9	13	0.6	-0.7

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
15/19						
MEAN	-3593.9	-1900.8	-509.7	131.8	130.2	-277
RMS	382.6	233	105.8	123.6	154	323.4
1/2 P-P	610.7	370.7	221.5	251.3	334.4	675.5

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	54.3	-157.7	41.6	-124.5	44.8	-111.4	66.7	-135.5
2nd	433.8	-230	262.1	-126.8	77	-32.5	-33.9	25.9
3rd	-140.6	18.4	-75.3	7.1	-5	1.2	43.7	-2.7
4th	13.7	-25.9	8.9	-12.9	0.1	1	-8.9	12.6
5th	-2	44.2	2	18	12	-14.6	18.7	-44.2
6th	1.4	-11.5	3	-4.4	4.2	5.4	3	13.6
7th	1.7	-3.9	3.5	-1.3	5.9	2.5	4.3	5
8th	8.3	-2.2	2.2	0.9	-6.4	4.1	-15.3	5.4

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
15/19						
MEAN	-402.3	-431.7	-162.8	-8591.2	-2874.6	-354
RMS	346.1	273.9	126.1	474.8	227.4	110.3
1/2 P-P	592.9	543.1	308.4	913.7	597.1	167

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	286	-239.4	214.1	-196.3	46.9	-57.8	-135.4	-522.5
2nd	-218.7	187.9	-110.8	172.1	26.1	64.6	-320.1	170.9
3rd	42.9	76.6	-10.5	96.3	-11	104.6	39	-33
4th	-11.9	-21.9	-11.3	-34.1	-43.7	-20.2	15.1	4.4
5th	-32.4	78.4	-32.6	88.7	-8.9	49.1	0	-71.4
6th	10.4	-26	12	-26.3	11.3	-11.6	8.4	11.7
7th	6.9	-2.3	16.2	8.1	8.2	11.7	-21	-12.5
8th	-4	2.8	-32.1	11.2	-31.6	15.7	-0.6	-11.1

RUN/POINT 15/19	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3787.2	374.1	-6071.6	-453.1	-3761.1	209	-6728.3	440.1	-3519.1	394.4	-1461.6	143.6
RMS	474.4	223.7	487.6	-168.7	517.1	415	592.1	208.8	482.6	151.7	321.3	58.6
1/2 P-P	795.5	136.6	949.6	-26.9	808.9	138	1120.2	46	925.4	29.5	642.5	-12.3
HARMONIC		-31	15	18.4		-23.5	3.4	12		-7.8	-28	-84.5
	1st	280.6	5.2	-22.6	-2.2	-44.4	27.9	82.5	15.3	46.8	-7.4	-92.6
	2nd	-398.3	13	-7.5	3.5	-9.9	-3.6	9.8	0	5.8	-6.9	-2.4
	3rd	26.1	1.8	-17.4	-2.4	2.6	-10.8	-2.4	-11.6	-5.8	-12.4	-14
	4th	16.8	-18.9	-5.6	9.6	-6.3	-3.8	-16	-4.8	-12.2	4.9	-14.7
	5th	-28.3										
	6th	-5.2										
	7th	-3										
	8th	11.3										
RUN/POINT 15/19	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1962.6	42.6	-353.2	-72.6	-3490.5	-202.6	-7913.8	219.3	-400.5	-72.9	-85.5	-11.1
RMS	289.1	1.8	128.9	-20.7	418	20	470.4	-148.2	112.5	-13.9	12.2	0.7
1/2 P-P	623	-44	186.5	-7.6	647.7	-2.3	948.6	49.4	168.1	2.8	22.8	4.4
HARMONIC		-127.8	-6.8	6.5		6.5	3.8	7.7		-4.1	-1	0.6
	1st	318.5	-171.5	-0.3	1.2	-1	-83.2	15.7	0.9	-0.5	0.3	0.3
	2nd	-11.5	-14.4	2.7	-1.7	11.4	8.2	1.7	-1.8	1.4	0.3	-0.4
	3rd	28.2	-0.8	-1.7	-2	2.2	-16.2	-11	-2	1.4	-0.2	0.3
	4th	-48.9	6.3	-1.9	1.5	-11.3	-1.6	-15.1	-1.5	2.3	-0.5	-0.3
	5th	-35.8										
	6th	5.5										
	7th	4.5										
	8th	1.8										

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2245.7	-1066.4	-166.9	273.5	273.5	273.5	273.5	273.5	273.5	273.5	273.5	273.5
RMS	257.4	160.7	101.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9	141.9
1/2 P-P	488.6	286.8	210.7	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6	322.6
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-49.2	-118	-27.4	-106.2	12.7	-116.5	37.4	-156	51	-178.8	137.7	-279.4
2nd	272.2	-183.3	164.8	-101.4	41.5	-24.8	-38.3	21.3	-71.3	40	-233.1	113.6
3rd	15	-45.9	11.5	-25.8	0.6	-4.6	-7.5	11.7	-12.1	22.6	-46.7	84.6
4th	35.9	-9	20.7	-4.6	1.8	-2.8	-18.7	0.5	-29.4	5.5	-26.5	15.1
5th	-8.9	-23	-1.7	-8.3	5.7	10.9	10.4	26.9	9.8	33.6	0.8	1.4
6th	13.6	-16.8	8.1	-6.3	-0.5	6.7	-11.3	18.9	-15.7	22.9	8.6	-11.1
7th	-1.8	-4.7	1.9	-1.4	7.5	3.2	8.1	7.4	3.5	9.4	-6.5	-13.1
8th	15.8	-42.3	1.7	-6.7	-20.9	40.8	-39.1	75.4	-35.7	73.1	68	-72.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-401.8	-536.7	-373.2	-815.4	-815.4	-815.4	-815.4	-815.4	-815.4	-815.4	-815.4	-815.4
RMS	337.2	313.3	203.1	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6	633.6
1/2 P-P	663.1	664.2	498.4	1225	1225	1225	1225	1225	1225	1225	1225	1225
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	156.7	-273.2	132.1	-209.2	28.8	-52.6	-751.7	-358.7	-299.5	65.5	73.1	-132.3
2nd	-258.5	155.8	-214.7	136.4	-75.8	50.9	-180.9	187.7	97.2	-64.3	-30.7	15.8
3rd	-78.2	128.2	-94	153.4	-86.3	136.1	44.7	-19.3	-66.9	7.9	-18.1	10.6
4th	5.1	1.7	15.2	-7.5	-3	14.7	-7.4	9.4	207.1	-283.5	0.4	-4.3
5th	-2.2	-86	-6.7	-112.2	19.3	-100.6	44.2	33.8	-92	-87.4	0.9	1.4
6th	31.7	-34.4	25.4	-26.8	0.3	-14.1	-7.4	8.6	8.9	-11.7	1.1	-2
7th	-2.7	-3.1	4.2	8.9	-5.5	26.8	-19.1	-16.5	15.8	21.6	-1.1	-1.3
8th	-18.8	26.8	-62.3	115.7	-52.2	124.4	-51.9	-97.1	58.9	91.2	-1.3	3.5

RUN/POINT 15/20	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2423.3	267.9	279.1	193.9	-1116.8	-358.6	190	1246.2	257.1	1034.5	243.7	719.3
RMS	349.5	236.2	162	128.4	-183.9	254	-174.9	-178.4	220.5	-131.5	163.1	-0.8
1/2 P-P	674.1	-51.1	-24.5	-22.4	-36.2	-29.8	44.8	-32.3	33.5	-17.3	29.5	44.3
		37.3	-9.3	-23.4	37.6	44.6	-1.7	10	10	38.1	-36.2	154.8
		33.7	-10.8	-29.3	27.8	4.3	14.7	-30.6	-8.8	-15.8	-2.6	44.4
		-12.9	16.5	20.7	-0.5	15.1	-12.7	-6.9	-1.7	-1.1	-0.8	0.1
	-5.3	-5.3	5.5	-24.1	-9.5	-1.4	3.1	-15.2	2.4	-15.1	-2.3	-12.9
	6	-69.1	-56.9	-89.8	9.6	9.6	-42.7	-57.7	-100.2	-45.3	-88.4	-12.8
												-52.8
RUN/POINT 15/20	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1938.6	-66.3	-77.3	156.7	-147.9	-111.6	-337.9	876.9	-131.6	-81.4	12.3	-9
RMS	474.1	-19.8	-27.3	17.5	-283.7	164.7	189.9	-159.7	24.1	-10.9	-3.6	0.6
1/2 P-P	994.9	11.6	14.7	-7.4	58.2	3.3	22.3	55.5	-7	-13.8	-2	4.1
		-347.7	-4.7	-0.6	40.6	-4.9	-0.2	3.1	-2.7	-4.1	0	-1
		49.1	-2.2	-3	-10.8	24.6	13.9	-41.1	3.3	0.1	0.7	0.4
		6.8	1.6	-1	-15.6	17.4	13.2	3.8	-0.8	1.6	0.1	-0.4
	9	-3.2	1.4	0.6	2.1	0	-12.2	-8.5	0.4	-1.2	-0.1	-0.7
	25.3	41.7	-1.9	3.8	-9.7	-60.1	-50.3	-94.7	-0.6	5.8	-0.1	-0.4
RUN/POINT 15/20	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1938.6	-66.3	-77.3	156.7	-147.9	-111.6	-337.9	876.9	-131.6	-81.4	12.3	-9
RMS	474.1	-19.8	-27.3	17.5	-283.7	164.7	189.9	-159.7	24.1	-10.9	-3.6	0.6
1/2 P-P	994.9	11.6	14.7	-7.4	58.2	3.3	22.3	55.5	-7	-13.8	-2	4.1
		-347.7	-4.7	-0.6	40.6	-4.9	-0.2	3.1	-2.7	-4.1	0	-1
		49.1	-2.2	-3	-10.8	24.6	13.9	-41.1	3.3	0.1	0.7	0.4
		6.8	1.6	-1	-15.6	17.4	13.2	3.8	-0.8	1.6	0.1	-0.4
	9	-3.2	1.4	0.6	2.1	0	-12.2	-8.5	0.4	-1.2	-0.1	-0.7
	25.3	41.7	-1.9	3.8	-9.7	-60.1	-50.3	-94.7	-0.6	5.8	-0.1	-0.4

RUN/POINT 15/21	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-944	-173	-258.9	-141.9	167.3	-9.4	421.1	-182.9	352	-207.3	43.3	-326.5
RMS	359.5	131.3	223.7	80.4	139.2	10.3	198.2	20.6	223.6	33.2	-219	90.3
1/2 P-P	623.7	175.3	424.3	100.8	310.7	5.4	511.4	24.2	504.3	45.2	-222.8	127.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-362	-173	-224.5	-70	-143.6	-9.4	-182.9	8.4	-207.3	43.3	-326.5
	2nd	131.3	-131.1	80.4	-72.6	-14.4	-41.6	20.6	-66.9	33.2	-219	90.3
	3rd	175.3	-108.6	100.8	-58.9	-12.1	-64.2	24.2	-92.8	45.2	-222.8	127.2
	4th	60.1	16.8	33.4	7.8	-5.5	-23.6	-15.3	-39.1	-16	-39.3	-5.5
	5th	-4.4	-96.7	-1.7	-36.8	38	-14.3	106.7	-12.5	129.8	9.8	7.7
	6th	33.6	-17.4	14.5	-6.4	4.9	-38.9	14.4	-47.8	19.5	28.2	1.1
	7th	-5.6	-6.2	1.1	-5.9	-3.9	13.6	-2.1	10.2	0.1	-12.4	-3
	8th	28	-63.1	-1.9	-12.2	58.6	-82.5	108.8	-71.7	106.8	120.6	-98.5
RUN/POINT 15/21	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-380.9	-316.8	-624.1	-241.3	-575.1	-67.3	-7584.5	585.4	-2792.5	307.2	87.9	-121.6
RMS	434.1	117	465.2	88	358	28.7	1090.2	204.1	783.5	-85.9	-41.1	16.8
1/2 P-P	931.9	205.1	1011.9	244.7	855.7	194.2	2008.9	-7.4	1820.1	-92	-30.5	3.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	34	61.5	-241.3	20.5	-67.3	-1359.1	585.4	-349.1	307.2	87.9	-121.6
	2nd	-291.6	117	-316.2	-181.5	28.7	24.9	204.1	180.2	-85.9	-41.1	16.8
	3rd	-214.9	205.1	-190.3	-183.5	194.2	93.1	-7.4	-191.5	-92	-30.5	3.2
	4th	22	27.1	63.7	26.6	51.8	-39.2	20.6	533.4	-598.5	3.8	0.7
	5th	61.3	-258.1	57.4	-321.5	-242.5	95.7	164.5	-174.1	-394.3	-3.5	-8.2
	6th	67.1	-38.4	42.5	-33.2	-29.7	-12	-13.4	14	5.2	4.8	-4.1
	7th	-9.3	-7.6	-3.1	-13.8	-21.4	-33.1	6	34.4	1.9	-0.6	-2
	8th	-45.5	38.1	-129.7	167.6	-107.1	-124.1	-248.3	138.4	230.4	-4.3	6.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
15/21												
MEAN	-1105.1		-5068.2		-1025.2		-5772.1		-2587.7		-1168.4	
RMS	319.7		1361.7		287.3		1429.7		1203.2		907.8	
1/2 P-P	655.9		2304.2		648.6		2482.7		2139.2		1806.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	319.2	-12.2	-645.3	-1767.1	-22.7	247.3	1866.6	-634.1	1583	-499	990.2	-465
2nd	-98	105	-47.9	-202.5	105.9	-126.9	34.4	249.5	41.4	195.7	125.1	57.6
3rd	-131.1	-191.6	-15.7	-90.2	-199.3	119.4	-77.1	17.4	-53	30.8	73.4	92.7
4th	60.4	16.2	-49.7	41.4	71.6	24.4	28	11.9	86.9	-75.6	324.4	-462.3
5th	111.2	-12.8	-134.8	74.3	15.2	86.8	-116	-128	-57.9	-61.3	112	237.2
6th	-36.5	17	40.3	17.3	36.5	-14.1	-23.2	-16.2	-10.7	-10.8	6.7	21.8
7th	0	1.6	-39.1	3.4	-2.6	3.5	-11	0.8	-13.4	-4.4	-23	-25.3
8th	19.8	-92.9	-141.2	-216.6	16.8	-74.8	-142.3	-241.7	-112.6	-219.2	-47.6	-124.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
15/21												
MEAN	-1902.3		-431.4		-850.7		-7013.9		-499.6		-81.9	
RMS	861		126.7		298.4		1200.9		114.4		10.6	
1/2 P-P	1857.1		225.2		585.5		2120.5		200		23.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	632.4	-411.6	-90.9	145.1	-199.8	177.9	532.6	1559.8	-120.6	-97.8	7.4	-9
2nd	158.9	-37.4	-34.4	18.6	-142.1	108	-9.6	-192.3	33.7	-8.3	-7.3	1.6
3rd	152.9	102.3	31.4	-6.1	142.4	171.5	2.2	92.9	-1.5	-24.2	-3.8	1.3
4th	390.1	-689.1	-1.7	1.8	69.5	21	-10.1	17.2	-1.2	-2.8	0.4	-0.3
5th	245	370.8	2.7	1.5	-85.3	37.5	146.7	-84.8	-1.8	4.7	-0.7	-1.9
6th	25	22.8	2.6	-3.4	-34.8	18.9	25.3	17.4	-3.2	3.2	0.4	-0.5
7th	-4.5	-10	0.7	1.3	-2.1	3.1	-6.7	7.1	-0.3	0.4	-1.1	-0.8
8th	55.5	94.5	-4.6	8.3	-4.1	-92.8	-120.5	-240.3	-3.9	10	-0.3	0.4

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
15/22												
MEAN	-337.1	117.1	321.5	488.7	404.1	-8.8						
RMS	393.3	245.3	163.6	235.7	270.2	408.6						
1/2 P-P	682.3	450.4	378.1	574.1	592.9	856.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-278.1	-310	-176.9	-224	-50.3	-184.6	-8.4	-205.6	4.4	-228.5	19.2	-372.7
2nd	60.6	-123.3	37.4	-68.6	-8	-13	-47.3	19.8	-69	31.4	-216.6	81.7
3rd	257.5	-134.8	144.7	-72.6	4.5	-16.2	-98	28.6	-139.8	53.5	-308.2	141.2
4th	74	22.1	42	9.5	6.1	-8.1	-30.1	-23.8	-48.1	-25.2	-47.2	-9.6
5th	-2.5	-136.2	-1.6	-49.7	-14.5	58.5	-26.1	158.5	-22.4	191.8	22.5	5
6th	43	-15.7	17	-5.8	-18.3	3.5	-54.5	10.7	-64.3	15.2	38	5.5
7th	-12.8	-8.4	-1.3	-6.7	11.8	-1.4	21	1.6	19.3	3.6	-18.2	-9.6
8th	32.6	-56.3	-5.2	-11.1	-61.7	53.2	-101	98.5	-87.6	98.7	135.4	-83.2
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
15/22												
MEAN	-366.2	-654.1	-659.5	-7190.4	-2765.3	-453.4						
RMS	519.4	562.8	429.3	1895.1	1124.9	116.6						
1/2 P-P	1121.8	1164.3	997.7	3266.3	2496.5	214.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-14.2	-361.8	29.8	-273.3	7.9	-75.2	-2246.2	1355	-483.4	513.9	97.7	-115.1
2nd	-332.3	107	-394.7	73.5	-253	18.7	136.4	266.7	241.5	-97.2	-46.6	20.7
3rd	-266.4	220.8	-221	263.7	-215.9	203.9	123.5	2.2	-281.5	-160	-34.1	-2.1
4th	33.7	37.7	92.8	33.1	109.9	58.7	-62.2	33.2	817.7	-836.5	-1.3	10.5
5th	86.3	-367	76.3	-449.9	105.9	-332.3	128.4	207.7	-231	-553.6	-2.7	-15.1
6th	86.4	-35.2	48	-33.9	-37.8	-39.4	-27.2	-22	19	25.2	6.9	-4.2
7th	-15.7	-6.1	-1.9	-10.7	-24.7	16.1	-26.3	2.7	33.2	10.2	-1.7	-1.2
8th	-60.7	35.1	-157.2	153.7	-126.1	164.1	-133.7	-304.2	160.2	283.1	-5.7	7.4

RUN/POINT 15/22	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-492.5	81.2	-4704.4	-402.6	-5408.1	-2250.3	-1041.6					
RMS	430.7	94.7	2125.9	389.6	2220.8	1863	1348.8					
1/2 P-P	773.1	277.2	3519.3	759.5	3782.1	3230.9	2666.6					
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	458.2	81.2	-1339.9	-2638	-88.1	379	2761.4	-1381.8	2339.3	-1111.8	1401	-857.4
2nd	-30.3	94.7	-146.2	-271.5	36.1	-122	150.9	322.9	137.2	260.1	203.9	81.8
3rd	-166.7	277.2	4.2	-118.6	-283.8	149.4	-113.1	6.7	-78	30.4	87.1	139
4th	69.1	22.3	-74.9	68.1	84.8	28.7	47.6	30.2	125.9	-98.9	478.2	-665.2
5th	148	-20.5	-184.1	113.7	21.7	123.2	-155.4	-163.5	-77.8	-68.3	167.3	348.5
6th	-45.1	14.5	45.1	30.3	44.4	-11.5	-28.5	-19.6	-16.4	-9	14.6	36.3
7th	0.9	7.1	-36.4	-1.8	6.7	5.5	-7.4	-8.1	-9.6	-12.9	-21.1	-31.2
8th	25.3	-91.8	-163.9	-262.7	24.3	-73.9	-163.6	-294.6	-126.9	-269.3	-48.7	-157.5
RUN/POINT 15/22	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1867.4	-702.8	-448.9	-245.5	-6661.1	-519.9	-79.8					
RMS	1251.1	32.1	129.2	369.7	2009.3	117.7	12.8					
1/2 P-P	2635.2	167.9	234.6	714.9	3433.3	206.7	29.6					
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	868.7	-702.8	-101.6	138.6	-340.5	88.6	1272.4	2484.8	-114.4	-108.7	9.8	-9.6
2nd	225.2	-32.1	-38.6	24.4	-71.9	93.8	-123.1	-259.4	39.1	-10.8	-9.3	2.5
3rd	206.3	167.9	35.3	-2.2	174.5	260.8	-16.2	124.8	2.4	-26.5	-4.2	-0.4
4th	568.5	-998.7	-7.2	11	81.3	25.2	-5.5	31.1	-3.8	6.1	-0.5	0.9
5th	346.6	530.1	2.8	5.9	-122.8	42.7	202.8	-117.1	-5.9	4.5	-1.3	-2.6
6th	30.9	43.8	3.6	-3.5	-44.5	17.6	27	26.3	-4.6	3.6	0.8	-0.5
7th	-7.7	-14.3	1.5	0	-1.7	-2.7	4.2	-0.4	-1.3	0.6	-1.9	-0.9
8th	66.5	112.7	-6.8	9.4	4.4	-98.6	-134.4	-298	-6.3	12.2	-0.2	-0.3

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
15/23												
MEAN	373.3	558.2	506	572.4	471.4	54.3						
RMS	399.7	241.7	147.8	239.2	281.3	447.7						
1/2 P-P	754.6	448.9	349	567.8	612.2	902.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-359.9	-132	-230.8	-114.5	-68	-145.8	-199.6	-2.3	-232.7	-8.1	-414.1	
2nd	-47.7	-89.6	-27	-50.4	-27.5	-6.2	-41.6	19.7	-55	29.3	-180.7	74.6
3rd	339.1	-123.2	188.7	-65.4	5.9	-18.2	-129.8	23.3	-183.9	46.4	-399.1	113.5
4th	81.2	38.5	46.2	16.5	9.7	-14.8	-30.5	-40	-52.1	-45.1	-52.4	-19.5
5th	5.8	-130.6	1.4	-46.6	-17.5	58.2	-34.3	158.8	-31.8	190.8	22.2	5.7
6th	44.4	-10.6	16.4	-2.7	-20.7	2.4	-59.8	6.9	-71.4	10.8	41.7	10
7th	-9.7	-8.5	-2.7	-5.8	5.1	-0.8	10.6	4.3	9.2	3.9	-4.4	-4.6
8th	24	-49.7	-11.2	-14.1	-64.1	38.7	-99.8	79.2	-84.4	80.9	124	-60.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
15/23												
MEAN	-353.5	-692.6	-754.2	-6734.8	-2727.2	-464.8						
RMS	566.6	610.4	479.6	2476.7	1497.6	116.8						
1/2 P-P	1218.1	1217.9	1095.1	4109.3	3181.8	218.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-55.7	-430.5	12	-339.7	10.8	-110	-2924.6	1818.6	-588.7	687.2	108.7	-106.3
2nd	-326.6	96.1	-435.6	54.8	-313.7	6.7	273.2	260.7	271.5	-109.1	-41.4	23.3
3rd	-349.9	192.9	-294.5	241.8	-287.1	178	162.2	30.6	-356.5	-261.3	-34.7	-8.6
4th	47.8	66.8	130.2	75.8	157.1	104.8	-87.1	47.2	1209.7	-1172.8	3.1	2.3
5th	107.7	-367.7	99.9	-458.7	139.7	-338.8	138.8	199.5	-248	-554.3	2.7	-16.8
6th	98.1	-26.3	62	-22.3	-29.6	-39.1	-21.3	-32.1	5.3	37.8	5.4	-5.5
7th	-11.9	-6.8	-15.8	-12.1	-58.6	17.3	-2	46.7	14	-38.4	0.1	-1.7
8th	-63.5	27.7	-145	119.1	-107.9	131.2	-176.1	-339.8	207.6	322.1	-6.4	8.7

RUN/POINT 15/23	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	231.2	-4272.4	335	-4978.7	-1867.3	-928.6						
RMS	380.9	2701.9	354.5	2784	2347.9	1696.2						
1/2 P-P	685.9	4348.7	642.8	4691	3969.8	3423.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	271.1	11.9	-1754.1	-3335.9	16	195.9	3409.7	-1853.1	2896.3	-1516.4	1700.8	-1122.8
2nd	77.8	56.5	-266.1	-270	-74.2	-85	281.5	310.9	238.6	252.9	269.6	81.4
3rd	-161.6	-374.6	32.4	-163.8	-379.2	143.3	-154.3	-13.1	-114.6	23.1	103.4	194.7
4th	78.7	41.6	-106.5	87	95.9	46.7	61.6	16.7	181.3	-144	707.1	-863.2
5th	142.7	-18.5	-170.9	119.9	24.5	119.4	-180.7	-164.7	-88.6	-70.3	208	357.7
6th	-45.4	14.6	28.4	19	46.9	-9.9	-14.1	-18.6	-8.7	-10.2	3	31.6
7th	0.2	2.7	-18.1	25.5	3.8	9	5.2	16	-0.9	9.2	-25.4	-28.7
8th	34.1	-86.5	-213.6	-307.3	33.2	-65.9	-201.7	-340.4	-156.6	-312.5	-63.6	-179.6
RUN/POINT 15/23	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1835	-460.6	467.7	-6249.6	-534.9	-73.7						
RMS	1586.6	129.2	352.5	2593.5	119.6	10.1						
1/2 P-P	3337.1	233.9	664	4343.4	207.8	24						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	1033.2	-921.3	-113.3	129.7	-157.9	147.5	1720.2	3181.2	-106.2	-122	6.1	-3.2
2nd	267.3	-40.7	-32.7	27.9	41.1	55.7	-252.5	-252.5	34	-12.2	-9.7	3.4
3rd	253.7	263.7	36.6	3.7	169.6	360.3	-37.8	163.3	7.1	-24.3	-3.8	-1.9
4th	858.6	-1287	-4.9	5.6	94	43.2	1.9	38.4	-1.2	1.3	0.7	-0.6
5th	409.2	551.8	-0.8	7.8	-122.4	40	196.4	-123.3	-7.6	0	-0.4	-2.9
6th	2.1	34.7	3.6	-5	-47.7	13	23.5	15.2	-4.5	3.8	0.4	-0.7
7th	-20.5	-25.2	1.6	0.2	-0.9	2.3	21.5	35.8	-1.3	1.5	-2.7	-1.1
8th	73.6	127	-7.5	11.3	12.1	-85.3	-167.7	-335.4	-8.5	13	0	-1

RUN/POINT 15/24	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	1671.8	1365.8	838.2	724.5	591.6	196.5	591.6	196.5	591.6	196.5	591.6
RMS	472.1		269.3		153.3		295.1		353.7		561.3	
	894.6		522.3		419		679.7		722.3		1137.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-230.6	-101.9	-158.3	-31.9	-147.1	-15	-214.5	-5.8	-252.7	-62.6	-445.7
2nd	-133.2		-44.6		-24.3		3		-45.5		18.8	
	494.8		-246.3		-131.6		8.7		-186.6		57.2	
3rd	112.9		65.6		27.6		13.4		-43.1		-62.6	
	48.1		-159.9		-58.1		-37.4		-86.4		187.4	
4th	62.7		-6.7		-3.1		-29.3		-80.8		-3.5	
	-3.1		-4.4		-5.1		1.6		2.2		-5	
5th	25.7		-79		-22.2		-73.4		-111.9		121	
	62.7		-6.7		-3.1		-29.3		-80.8		-3.5	
6th	-3.1		-4.4		-5.1		1.6		2.2		-5	
	25.7		-79		-22.2		-73.4		-111.9		121	
7th	62.7		-6.7		-3.1		-29.3		-80.8		-3.5	
	-3.1		-4.4		-5.1		1.6		2.2		-5	
8th	25.7		-79		-22.2		-73.4		-111.9		121	
	62.7		-6.7		-3.1		-29.3		-80.8		-3.5	
Torsion, in-lb Blade 1, $r/R=0.400$	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-284.4	-717	-904.1	-5641	-2648	-474.7	120.4	238.9	120.4	238.9	120.4
RMS	707.5		782.9		642.6		4197.7		2098.7		4376.1	
	1455		1570.4		1444.8		6721.6		4376.1		238.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-152.3	-458.8	-358.2	-2.1	-122.4	-5034	3028.5	-883.1	1043	126.9	-87
2nd	-429.8		45.3		-8.9		-464.5		393.4		369.2	
	-474.8		289.1		341.8		-402.9		328.7		74.1	
3rd	70.1		99.7		106.8		185.2		-114.9		24.4	
	221.9		-420.8		248.9		59.8		-29.5		-1665.7	
4th	124.7		-19.6		-10.1		-50.5		-38		-243	
	-6		-2.1		-27.6		-102.2		4.4		17.9	
5th	-78.4		42.7		181		-130.9		-260.4		-398.3	
	-78.4		42.7		181		-130.9		-260.4		-398.3	
6th	-78.4		42.7		181		-130.9		-260.4		-398.3	
	-78.4		42.7		181		-130.9		-260.4		-398.3	
7th	-78.4		42.7		181		-130.9		-260.4		-398.3	
	-78.4		42.7		181		-130.9		-260.4		-398.3	
8th	-78.4		42.7		181		-130.9		-260.4		-398.3	
	-78.4		42.7		181		-130.9		-260.4		-398.3	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	1522.3		-3246.8		1662.9		-3993.8		-966.1		-587.6	
RMS	530.6		4444.3		479.8		4363.9		3681.9		2530.3	
1/2 P-P	1123.3		6965.1		940.9		7070.2		6083.9		4850.6	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	233.5	222.3	-2771.5	-5574	-95.3	130.6	5302.7	-3022.7	4500.8	-2487.9	2576.3	-1753.7
2nd	163.8	17.4	-413.3	-392.1	-152.3	-49.1	409.5	454.7	351.6	373.2	385.5	136.1
3rd	-281.3	-533.4	52.6	-346.1	-525	269	-323.5	-38	-227.7	20.6	209.2	292.7
4th	110.8	59.8	-102.2	105.7	131.4	70.6	109	-21	256.3	-238.7	890.6	-1273.7
5th	176.5	16.2	-176.9	114.4	-26.6	153	-197.7	-179	-101.4	-62	204.5	470.1
6th	-67.2	14.1	48.3	33.7	66.8	-4.8	-19.5	-18.7	-17.6	-4.6	-11.2	66.7
7th	1.9	-7.3	-21.4	26.9	-2.4	3.9	8.7	30.2	1.9	16	-32	-39.7
8th	26.6	-119.2	-291.3	-359.9	24	-89.3	-288.4	-399.4	-228	-376.5	-98.7	-216.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1730.8		-473.2		1744.6		-5225.6		-555.7		-60.6	
RMS	2247.8		130		476.8		4304.2		125.5		12	
1/2 P-P	4531.8		233.3		951.5		6949.2		221.8		29.8	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1520.3	-1402.5	-133.2	106.9	-113	-73.5	2714.2	5382.4	-85.8	-145.8	-0.2	8.1
2nd	397.4	-37.6	-26.7	37.3	132.9	12.6	-365.1	-404.4	26.6	-21.6	-10.9	5.7
3rd	496.6	399.3	33.9	-4.9	294.2	512.8	-81	314.3	4.7	-15.9	-2.3	-1.8
4th	1048.1	-1848.8	-2.2	20.2	130.8	63.4	64.1	15.2	4.3	15.8	1.5	2.7
5th	426.1	698.9	-13.5	14	-170.5	10.1	239.4	-111.5	-16.7	-11.4	1.5	-3.3
6th	-15.1	73.7	2.4	-2.9	-67.9	6.6	28.9	33.7	-3.4	1	0.1	-0.5
7th	-30.8	-35.5	3.4	0.7	-3.9	11.2	31	28.8	-1.5	0.3	-4.1	-1.5
8th	127.9	145.7	-7.7	15.5	11.7	-111.1	-248.5	-391.8	-11.1	17.4	0.8	-1.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	3109.2		2260.3		1205.3		893.4		727.3		343.7	
RMS	738.8		426.9		217.5		342.2		405.8		646	
1/2 P-P	1258.6		741.6		568.8		824.5		875.3		1374.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-157	-281.6	-118.1	-186.3	-6.9	-197.9	-12.3	-241.7	-7.3	-280.3	-106.9	-464.5
2nd	-652.5	25.1	-389.5	10.9	-135	22	-24.5	26.5	0.6	31.6	-54.3	44.9
3rd	540.1	-441.9	302.4	-238.9	8.6	-42.1	-207.6	115.1	-288.2	182.9	-628	420.6
4th	101.5	63	59.5	20.3	15.9	-46.1	-37	-88.7	-67.7	-96.3	-68.1	-31.5
5th	38.9	-194.4	15	-72	-37.7	81.1	-80.5	223.7	-82.5	265.9	49.7	-2.7
6th	59.8	-6.1	21.5	-4	-30.6	-2.6	-81.6	-4	-96	2.8	56.2	21.2
7th	-1.7	2.4	1.5	-2.5	5.6	-6.2	4.1	-7.3	0.4	-7.6	4.8	-8.3
8th	11	-91.5	-18.9	-25.5	-65.5	71.1	-95.1	141.5	-73.6	142.8	139.4	-127.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-236.2		-767.3		-1047.3		-4114.2		-2438.7		-460	
RMS	806.4		911.1		796.4		6986.9		2939.6		187.5	
1/2 P-P	1857.7		1967.3		1853.5		10714.4		5753.2		430.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-255.4	-469.8	-123.3	-369.1	-26.4	-150.7	-7180.8	6616.1	-1110.4	1743.4	182.8	-48.8
2nd	-378.1	72.4	-663.8	19.7	-604.2	-3.4	1144.8	502.4	542.3	-107	128.1	57.2
3rd	-509.6	479.1	-417.9	526.2	-425.9	362.6	443	37.4	-984.6	-414.3	10.6	-84
4th	85.9	154.8	213.2	162.8	272	174.3	-247.7	91.6	1788.3	-2740.6	9.4	-46.8
5th	213.2	-500.9	246.8	-625.6	308.1	-475.7	179	114.3	-241	-597.1	-21.8	-33.4
6th	119.1	-21.2	40.9	11.7	-70.5	-22.4	-16.3	-25.2	-15.8	-5.7	-8.5	24.3
7th	-6.7	15.2	-31	-15.6	-114.6	30.6	17.5	-9.8	-33.8	-16.3	6.8	11.9
8th	-77.5	58.3	-128.9	199.9	-99.1	196.9	-379.9	-352.6	392.2	359.4	0.2	7.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
MEAN	3036.4	-1878.4	3185.6	-2741.3	155.1	-151.4						
RMS	810	7359.1	751.3	6426.8	5423.8	3627.1						
1/2 P-P	1516.9	11368.7	1384.7	9940	8578.3	6854.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	425.2	399.7	-5806.2	-8510.5	-280.8	258.4	6325.4	-6383.8	5410.7	-5304.8	-3437.9	
	527	47.4	-998	-689.6	-595.9	-27.1	984.7	606.4	794.6	516.8	210	
	-430.3	-646.6	20.2	-501.5	-602.8	436.2	-329.4	69.2	-203.4	135.1	402.3	
	131	62.7	60.4	241	133	76.4	125.1	-36.7	245.2	-369.2	-1879.9	
	217.5	-23	-128.8	157	-9.6	186	-244.7	-113.5	-130.8	-11.2	485.6	
	-57.1	9.6	17.8	21	60.5	4	-59.1	-69.7	-42.4	-39.9	55.1	
	8.3	-11.6	-3.6	-26.3	-6.8	-4.1	-24.9	-23.4	-14.1	-29.4	-32.2	
2.1	-107.3	-391.8	-333.4	4.3	-75.1	-368.6	-302.8	-314.8	-298.5	-167.3		
-157												
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
15/25	Blade 3, r/R=0.450	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
MEAN	-1524	-459.2	3221.7	-3866.1	-555.1	-39.2						
RMS	3099.9	174.7	752.7	7233.3	175.4	34.7						
1/2 P-P	6148.4	361.5	1389.6	11394.9	347.1	98.3						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	SINE
	1696.7	-2529.1	-185.8	71.8	-331.8	-292.3	6003.9	8152.8	-40.6	-197.8	-6.7	35
	536	-8.7	97.2	70.2	531.9	15.7	-1033.6	-696.3	-79.5	-67.2	9.4	14.8
	852.2	502.8	5.5	47.2	459.3	596.1	-80	449	51.6	30.8	10.5	-17.8
	745.9	-2685.8	0.3	-25.3	150.1	67.7	143	39.9	19.5	-32.9	3.1	-8.8
	489.4	690.6	19.3	27	-193.9	49.5	179.3	-126.5	-39.8	19.5	-7.2	-6.3
	8	84.3	-11.8	22.7	-66.7	10	-7.5	41.5	16.7	-15.4	-4.5	4.6
	39.1	15.5	-3.9	-7.4	-6.8	16.4	-9.1	-10.6	-12.4	6.4	-2.1	3.3
137	146.7	0.3	7.5	-10.9	-106.3	-363.5	-345	-0.7	12.6	6	-4.3	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3546.1		-1859.7		-961.4		96.7		145.7		-258.4	
RMS	474.7		284.7		98.9		116.2		143.4		309.5	
1/2 P-P	877.5		522.1		205.5		243.1		310.5		641.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-456.1	-45.2	-273.6	-55.6	4.5	-112.3	9.3	-131.7	36.8	-148.7	197.7	-234.3
2nd	401.3	-236.5	244.2	-132.7	-30.7	24.8	-37.7	31	-72.2	51.6	-241.4	153.5
3rd	-135.9	28.4	-75.4	12.3	34.8	-6.1	40.5	-5.9	58.4	-5.9	107	43.2
4th	10.4	-31.5	7.2	-19.8	-9.6	11	-10.3	13.2	-15.7	19.4	-16.7	22.9
5th	-12.1	42.3	-0.9	17.1	21	-36.4	24.6	-41.1	25	-49.8	-8.5	1.1
6th	-3	-8	0.8	-3.1	5.8	8.5	6.9	10.9	3.7	10.6	-5	-4.9
7th	0.1	-7.6	2.4	-3.1	3.9	6.3	4	7.9	0.1	9.1	-3.1	-6.6
8th	11	-16.7	3.9	-3.8	-16.1	23.7	-18.1	28.6	-20	28.4	34	-24.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-391.6		-416.7		-165.9		-8708.4		-2703.9		-338.2	
RMS	339		274.1		139.6		503.3		197.7		108.4	
1/2 P-P	610.5		572.5		335.3		985.3		506		158.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	260.4	-240.1	201.5	-188	57.3	-55	549	-313.5	-71.3	31.5	53.9	-140.6
2nd	-210.5	202.3	-106.7	181.7	21.2	68.8	-231.1	147.4	61.4	-53.5	-19.1	15.5
3rd	46.1	78.5	-4.6	103.1	-5.1	112.4	38.1	-39.7	-10	47.3	7.9	5.8
4th	-14	-23.7	-13.7	-46.7	-48.7	-23	21.1	8.4	-48.9	-98.9	-4.4	6.1
5th	-53	73.2	-53.3	87.2	-28.1	45.3	37.6	-71.4	-80.7	137.1	-0.8	1.8
6th	3.2	-23.8	3.3	-29	4.7	-12.3	2	-1.9	-5.1	-0.4	1.1	-2.2
7th	6.6	-4.4	15.8	3.5	6	8.8	23.8	8.7	-17.6	-6.5	2.1	0.7
8th	-3.6	11.2	-30.4	42.8	-30.2	44.3	-6	-10.4	7.2	4.6	-1.2	2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3623.8		-6488.5		-3648.9		-6761.4		-3523.9		-1115.2	
RMS	365.3		420.7		346.4		395.5		320.2		163.6	
1/2 P-P	695.4		876.5		641.9		892.5		693.1		421.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	132	-220.3	342.8	372.6	91.5	133.6	-169.4	406.9	-129.4	352.9	17.4	127.5
2nd	-361.6	225.2	217.7	-158.6	382	-216.6	-244.6	165.1	-182.2	115.8	-58.5	36.4
3rd	40.9	120.1	-42.2	-15.9	125.5	-38.9	-26.8	51.5	-14.7	32.7	14.6	-14
4th	11.9	-28.4	0.5	42.2	13.3	-23.4	-23.4	7.9	-6.7	-11	45.6	-110.8
5th	-27.2	-4	43	-10.5	4.9	-42.4	-17.9	77.3	-13	40	40	-95.5
6th	-3	9.3	0.5	-8.6	-0.1	-5.2	-6.8	7.7	-5.6	1.7	0	-0.1
7th	-4	0.7	21.8	3	1.9	6.5	27.3	6	19.2	5.1	-9.6	-1.9
8th	0	-29	-7.3	-12.4	7.4	-13.8	-10.7	-9.2	-8.2	-11.1	-12.6	1.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1680		-333.2		0		-8035		-384		-86.2	
RMS	193		125		0		463.7		111		9.3	
1/2 P-P	530.9		177.7		0		937.1		167.8		21	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	84.9	33.5	-57.1	164.4	0	0	-410.8	-373	-142.2	-62.1	-2.9	-11.2
2nd	5.8	-18.3	-19.6	15.6	0	0	282.6	-117.8	15	-13.7	0.3	0.9
3rd	39.9	-30.3	-13.7	-1	0	0	50	33	-2.7	3.6	-0.1	3.6
4th	66.7	-146.1	-4.7	8.5	0	0	-6.3	-12.5	-2.5	7.7	-1.4	1.1
5th	42.3	-160.4	-0.7	-0.2	0	0	-65.6	-2.2	0.2	-0.7	-0.7	1.6
6th	7.4	-15.7	1.8	-2.1	0	0	8	1	-2.9	2.4	0.6	-0.5
7th	-16.9	-4.3	-1	-0.5	0	0	26.3	9.3	-0.5	2.3	-0.5	0
8th	0.4	7.3	-1	3	0	0	-7	-9.6	-1.2	3.5	-0.9	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2297.4	-1086	-842.6	225.3	246.3	-161						
RMS	302.3	184.9	116.9	137.5	156.4	289.3						
1/2 P-P	579.1	360.8	278	328	331.3	579.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-254.5	-73.2	-153.9	4.7	-130.9	8.4	-152.9	23.4	-171.6	115.1	-268.7	
2nd	262.1	-189.9	159.8	-34.7	21.2	-41.8	25.5	-70.3	42.4	-219	124.2	
3rd	10.7	-42.4	7.5	-24.2	8.6	-9.1	11.3	-11.1	21.4	-41	88	
4th	34.9	-9	20.7	-7.4	-1.1	-18.8	-1.7	-28.4	2.4	-23.8	15.9	
5th	-24.9	-28.9	-7.4	-11.6	28.2	25.3	33.9	28.9	39.5	0.1	3.8	
6th	11.9	-18	6.7	-6.5	16.3	-14.3	19.8	-18.6	22.4	11.8	-9.5	
7th	2.3	-5.3	4.1	-1.6	6.9	2.4	8.5	-0.9	9.7	-0.5	-12.2	
8th	-6.5	-41.3	-0.4	-6.7	66.6	3	77.8	3.5	75.4	21.2	-87.4	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-390.8	-513.3	-368.4	-8160.4								
RMS	325.6	302.7	201.4	369.3								
1/2 P-P	661.6	604.7	498.7	782.2								
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	137.9	-266.1	125.1	-195.3	34.3	-53.7	-378	-195.6	89.5	64	-133.4	
2nd	-234.5	163.5	-194.9	141.4	-69	50.6	-139.9	177.3	-59.1	-27.4	14.8	
3rd	-67	136.9	-80.8	162.2	-77.2	147.8	42.4	-25.9	9.3	-13.2	11.7	
4th	9.6	1	28.1	-18.3	9.5	8.4	-7	45.9	-355.6	-3.9	-4.6	
5th	-45.4	-95.5	-52.2	-118.7	-23.4	-106.5	48.2	42.4	-105.7	0	1.6	
6th	25.2	-36.7	21.4	-32.3	-5.7	-15.5	-9.1	-3.3	-0.7	0.8	-0.7	
7th	-3.8	-0.4	-1.9	17.6	-7.6	35.5	20.4	-0.2	6.9	-1.5	-0.7	
8th	-2.2	31.3	1.7	119.4	8.1	125.5	-82.1	-46.7	36.8	-0.3	3.4	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
22/ 6												
MEAN	-2353.7		-6035.1		-2364.1		-6195.2		-3005.7		-979.2	
RMS	239.8		479.3		247.6		671.3		567.1		412.3	
1/2 P-P	498		986.3		517.3		1217.9		991.6		815.3	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	171.7	-3.2	228.5	-567.9	-106.3	162.8	867.5	258.2	733.3	239.1	516.5	29.1
2nd	-214.4	170.2	125.9	-176.1	223.2	-166.6	-108.7	174	-73.9	123.2	27	21.5
3rd	-38.4	-19.4	-31.2	-32.7	-20.8	37.1	-30.5	38.4	-22.1	30.6	18.6	16.5
4th	29.2	-3.4	-44.4	34.5	30.4	-2.7	-10.8	-29	21.8	-48.8	144.5	-174.2
5th	31.3	-30.6	-23	44	22.5	26.4	-53.1	-32.5	-24.9	-18.7	67.8	51.3
6th	-15.7	20.1	9.4	-6.4	15.7	-18.6	-12.7	6.5	-9.4	0.8	15	3.3
7th	-6.3	2.8	17.7	5.4	-1.3	5.8	24.5	14.4	15.3	11.3	-14	-7.2
8th	-25.5	-58.6	-85.2	-41.2	-8.7	-38.6	-94.2	-40.7	-78	-44	-49.3	-16

RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
22/ 6												
MEAN	-1659.9		-374.7		0		-7555.3		-438.8		-88.4	
RMS	373.2		122.8		0		503.6		110.4		9	
1/2 P-P	869.9		202.3		0		971.5		187.1		20.8	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	378.7	-56.7	-66.9	156.8	0	0	-317.4	567.9	-134.6	-72.4	6.5	-8.5
2nd	70.8	-49.3	-23.5	15.3	0	0	166.1	-141.6	23.5	-11.1	-2.7	1.3
3rd	53.3	12.7	11.3	-8.8	0	0	31.9	45.4	-5.9	-14.6	-1.1	4.1
4th	180.5	-228	-2.4	1.6	0	0	0	-1.9	-3	-3.4	-0.8	-1.3
5th	120.8	90.7	-1.5	-3.5	0	0	20.4	-60.9	2.7	0	1.1	1.5
6th	15.5	-10.4	0.8	-0.8	0	0	17.5	-5.8	-0.4	0.2	-0.2	-0.2
7th	-16.5	-10.9	1.9	0	0	0	21.5	5	-0.1	-2	-0.3	-0.8
8th	35.1	20.2	-0.7	4.7	0	0	-80.8	-46.2	-0.7	5.6	0.2	-0.2

5

Run/Point	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
22/7						

MEAN	-1000.3	-281.7	-714.5	365.2	359.3	-51.7
RMS	306.4	183.9	164.9	193.1	219.8	347.5
1/2 P-P	568.5	343.1	390.9	458.2	501.9	707.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
1st	-292.6	-52.9	-183.6	-65.2	-12.2	-147.8	-9.8	-173.1	0.1	-195.9	-327.7
2nd	108.7	-124.9	68.3	-70.4	-37.1	19.1	-44.7	23.2	-63.9	34.1	99.2
3rd	182.7	-123.2	104.1	-67.1	-58.5	23.9	-70.1	29.9	-95.8	51.9	141.9
4th	71.7	7.5	39.9	1.2	-26.9	-13.7	-30.5	-15.4	-47.9	-15	3.1
5th	-52.9	-90.8	-21	-35.3	30.1	91.4	36.7	106.4	49.8	126	4.3
6th	31.5	-24.3	13.1	-8.7	-34	20.4	-39.3	24.4	-47.6	29.2	-4.6
7th	-2.4	-1.7	3.1	0.5	10.7	5.2	11.7	5.9	9.7	5.1	-11.2
8th	5.9	-66.3	-4.6	-11.8	-35.8	103.1	-40.6	121	-31.4	117.7	-120.5

Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$

MEAN	-373	-595.6	-567.1	-7267.9	-2610.3	-427.1
RMS	427.3	452.5	343	1103.7	834	110.8
1/2 P-P	886.9	921.2	799.2	1996.3	1919	200.4

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	21.9	-321	59.3	-232.1	18.1	-68	-1419.5	502.7	-351.7	298.3	81.6	-121.9
2nd	-271.9	133.8	-305.4	113	-186.2	43.3	57.2	184.1	170.9	-86	-39.9	19.3
3rd	-205.3	203.3	-176	229.8	-169	189.5	79.2	-11.4	-174.2	-58.4	-27.4	4
4th	40.8	23.2	92.2	7.1	95.9	37	-48.2	58.4	535.6	-745	0.5	-1.3
5th	-57.8	-257	-85.3	-317.3	-27.8	-248.7	134.6	126.3	-281	-321.2	-8.4	-4.2
6th	61.3	-48.6	46.9	-43.9	-23.4	-24.5	-28.5	-16.5	25.3	13	3.7	-5.3
7th	-11.5	3.8	-5.3	11.8	-17	36.1	32.3	-6.7	-27.1	12.6	0.1	0.4
8th	-29.4	46.9	-58.7	178.1	-34.3	184	-177.7	-170.1	180.7	151.8	-2.9	8.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1027		-5257		-1016.8		-5433.6		-2313.3		-769.7	
RMS	246.5		1233.2		243.4		1428.6		1202.2		899.6	
1/2 P-P	562.9		2071.8		542.4		2388.2		2044		1795.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	154.8	-16.4	-391	-1650.6	-42.6	143	-419.4	1630.9	-322.1	1007.9	-352.6	
2nd	-70.1	100.7	-36.1	-190.2	62.6	-106.1	202.2	81.3	156.2	138.7	29.8	
3rd	-134	-189.4	-20.3	-80.3	-203.3	128.3	25.6	-51.1	34.1	47.7	71.4	
4th	64.7	11.2	-84.9	66.9	70.8	8	-23.8	77.7	-95.8	354.4	-462.9	
5th	95.5	-64.3	-110.5	130.8	55.4	87.4	-97.4	-70.5	-46.2	195.7	208.2	
6th	-30.8	26	31	11.1	31.6	-23.5	-29.7	-20.8	-4.7	21.7	19.4	
7th	-2.5	4.8	30.7	9.8	0	1.7	40.3	27	0.2	-18.6	-11.7	
8th	-8	-90.9	-189.2	-143.6	6.3	-70	-201.1	-164.7	-158.8	-95.1	-81	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1617		-416.5		0		-6749.6		-487.5		-86.7	
RMS	857.9		123.6		0		1252.2		114.1		10.1	
1/2 P-P	1976.4		223.3		0		2123.9		204.4		22.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	645.2	-349.4	-84.8	144.3	0	0	311.9	1698.7	-123.2	8.8	-5.9	
2nd	160.1	-64.9	-32.7	19	0	0	-29.1	-172.8	35.9	-7	2.1	
3rd	140.5	85.2	27.8	-7.3	0	0	9.6	83.8	0.1	-2.8	1.5	
4th	442.1	-651.9	-0.8	2.1	0	0	-10.6	14.5	-0.6	0.6	-1.3	
5th	355.6	316.3	4.2	-1.2	0	0	117	-142.3	-0.2	7	-0.7	
6th	31.6	3.8	0.6	-4.3	0	0	22.1	9.5	-2.8	4.1	-0.9	
7th	-32.3	-9.7	-0.4	-0.1	0	0	36.5	-11.7	-1.1	-0.9	-1	
8th	73.4	69.9	-3.4	10	0	0	-170.9	-167.1	-3.4	12.8	-0.4	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$				
22/ 8										
MEAN	-416.1	79.3	-656.5	427.7	412	4.7				
RMS	337.2	196.3	205.6	239.8	275	402.5				
1/2 P-P	663.8	396.1	500	578.9	609.4	809.9				
HARMONIC										
1st	COSINE -250.5	SINE -63.3	COSINE -159.8	SINE -70.9	COSINE -14.4	SINE -155.9	COSINE -182.6	SINE -206.8	COSINE 3.9	SINE -348.2
2nd	77.9	-124.3	49.9	-71.3	-39.7	19.7	-47.8	23.9	-65.4	35
3rd	262.1	-168	148.5	-91.8	-87	34.6	-103.4	42.6	-140.9	71.2
4th	89	16.7	48.6	4.8	-33.4	-24.2	-38.3	-27.5	-59.1	-28.9
5th	-38.2	-149	-15.4	-56	8.8	150.7	11.2	24.3	208.2	22.9
6th	40.8	-24.4	15.2	-9.6	-48.8	18.7	-56.5	23	-65.9	27.8
7th	-3.8	0.6	3.7	0.2	14.6	1.8	16.2	13.9	0.6	-15
8th	21.7	-73.3	-5.7	-12.2	-71.1	114.6	-80.2	-67.5	132.3	122.8
										-121.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$				
22/ 8										
MEAN	-355	-625	-652.6	-6935.8	-2603.2	-441.8				
RMS	529.8	574.8	441	1679.5	1119.7	113.5				
1/2 P-P	1145.5	1163.2	1001.1	2908.3	2583.4	208				
HARMONIC										
1st	COSINE -31.5	SINE -342.8	COSINE 23.6	SINE -244.3	COSINE 3	SINE -72	COSINE -450.6	SINE 411.5	COSINE 88.6	SINE -115.4
2nd	-307.2	127.9	-361.6	102	-232.6	34.7	102.8	218.3	-47.9	20.8
3rd	-271.6	251.4	-222.1	287.9	-212.6	221.9	120	-7.3	-34.8	-2.7
4th	55.1	44.2	119.8	31.4	132.6	52.4	-78.1	55	-3.3	7.6
5th	1.5	-407.5	-23.4	-492.9	29.6	-364.1	156.8	193.4	-7.9	-12.8
6th	83	-52.8	55.9	-50.7	-33.5	-31.9	-39.1	-21.9	6.7	-6
7th	-15.9	6.2	-8.8	3.1	-32.2	27.8	22.6	2.4	-0.8	1
8th	-52.7	54	-119.1	200.4	-89.9	201.2	-177.6	-259.2	-5.9	9.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
22/ 8												
MEAN	-437.6		-4918		-413.3		-5115.4		-2016.7		-695	
RMS	319		1818.3		314.7		2010.4		1688.2		1238.1	
1/2 P-P	696.8		3002.4		716.2		3323.4		2859.8		2493.8	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	166.8	49.9	-783.2	-2393.1	-76.5	144	2668.8	-810.3	2251.6	-645.2	1344.8	-567.9
3rd	-41.8	101.1	-77.4	-243.1	35.3	-112.1	122.9	260.7	110.9	205.2	162	49.2
4th	-191.3	-276.9	-11.9	-122.6	-284.9	182.4	-111.6	21	-79.6	36.5	84.4	100.4
5th	80.4	23.8	-88.8	117.4	91.5	21.7	21.8	-12.3	110.7	-121.8	469.9	-653.7
6th	147.7	-63.1	-179.5	142	56.2	142.4	-192.3	-160	-90.7	-68.2	243	352.5
7th	-40.1	22.3	38.5	19.6	39.9	-20.3	-36.7	-13.3	-27.4	-9.1	25	38.6
8th	3.2	6.2	29.8	24	4.6	-0.7	47.5	2.9	32.5	-0.7	-14.7	-24
	8.4	-103.8	-202.4	-228.1	21.8	-78.5	-214	-259.9	-171.4	-246.5	-96.3	-134
RUN/POINT												
22/ 8	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1620.1		-432.5		0		-6439.1		-506		-82	
RMS	1186.2		125.3		0		1857.1		117		10.2	
1/2 P-P	2570.4		234.1		0		3141.2		213.1		26.8	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	833	-513.3	-92.7	137.9	0	0	720.7	2476.3	-117.8	-99.5	8.4	-3.6
3rd	187.7	-61	-39.6	22.6	0	0	-65.7	-211.3	42.2	-10.4	-8.5	2.3
4th	216	128.3	34.5	-2.1	0	0	-2	124	5.1	-32.2	-3.8	-0.1
5th	577.7	-933.4	-4.5	11.3	0	0	-20.1	-4.5	-1.6	5.3	-0.7	-0.3
6th	448.7	539.9	5.4	3.8	0	0	194.9	-148.4	-5.8	8.1	-0.7	-1.3
7th	35.5	33.7	2.5	-4.2	0	0	23.5	23	-5	4.1	0.6	-0.7
8th	-40.3	-16.8	0.5	-1.1	0	0	36.3	-10.8	-2.6	1.6	-1.3	-0.8
	76.5	100.7	-6.7	10.9	0	0	-171.7	-255.9	-7.7	15	0.6	-0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
22/ 9												
MEAN	193.4	-4282.9	254.5	-4849.5	-1774.1	-654.7						
RMS	355.4	2310.7	348.7	2494.2	2105.3	1533						
1/2 P-P	644.6	3833.7	626.7	4269.3	3623.2	3040.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	104.6	-64.7	-1298.6	-2932.2	71.6	82.8	3165.2	-1412.6	2685.6	-1152.9	1562.4	-891
2nd	45.5	64.3	-203.4	-229.8	-49.7	-80	261.4	250.3	226.9	198.5	254.2	41.1
3rd	-240	-348	-2.8	-180.9	-352.7	229.5	-173.7	17.2	-125.3	36.9	116.6	138.1
4th	85.5	34.2	-116.6	125.6	99.1	32.8	42.3	-15	139.7	-164.3	558.4	-879.2
5th	164.9	-36.5	-187.6	139.8	24.6	156.8	-181.5	-177.8	-85.6	-71.6	228.6	407.8
6th	-48.2	23	44.3	13.1	46.5	-15.3	-28	-22.7	-21.6	-14.5	21.9	49.6
7th	1.7	5.7	-15	25.7	4.1	1.4	0	17.4	-7.6	5.8	-36.2	-28.8
8th	20.2	-106.7	-276.7	-289.2	21.1	-71.9	-283.9	-308.8	-229.4	-295.9	-117.8	-157.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
22/ 9												
MEAN	-1629.2	-444.1	0	-6016.5	-520.9	-78.2						
RMS	1462.4	125.5	0	2357.2	118.6	9.2						
1/2 P-P	3004	231.9	0	4009.6	218.1	24.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	944.4	-757.2	-101	130.2	0	0	1284.5	3017	-111.5	-109	3.6	0.5
2nd	259.4	-87.7	-37	25.5	0	0	-194.2	-214.5	39.6	-11.9	-8.9	3.5
3rd	290.3	170.2	39	-0.4	0	0	-10.1	175.7	6.2	-34.1	-4	-1
4th	657.3	-1250.5	-7.6	16.7	0	0	8.2	15	-2.1	10.6	0.1	0.2
5th	419.1	629.5	1.3	8.9	0	0	218.9	-145.8	-12.4	5.3	-0.1	-2.4
6th	26.4	58.1	2.5	-2.1	0	0	21.4	39.7	-4.9	2.9	0.3	-0.6
7th	-17.7	-30.8	1.8	-0.8	0	0	-1.4	0.3	-2.7	1.8	-2.3	-1.4
8th	108.1	112.7	-6.9	13	0	0	-248	-304.5	-8.4	17	1.4	-1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
22/10						
MEAN	1569.5	1308.7	-457.2	647.4	589.7	201.9
RMS	595.4	351.5	266.3	309.6	361.4	561.2
1/2 P-P	1091.5	691.9	607.3	699.7	731.6	1171.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-552.3	56.5	-58.2	-171.9	-52.1	-235.2
2nd	-128.7	2.2	-76.6	15.1	-63.4	21.1
3rd	489.3	-282.9	275.2	63.7	-260.4	121.7
4th	125.3	54.4	-162.4	-54.3	-83.7	-67
5th	-21.2	-177.4	-9.4	-66.2	-11.8	250.8
6th	67.4	-30.4	26.2	-12.7	-88.9	30.8
7th	0.4	-2.7	-0.1	-3.6	-8.1	-0.5
8th	-3.2	-83.6	-19.4	-13.5	-60.6	160.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
22/10						
MEAN	-286.2	-709.7	-896.7	-5684.5	-2531.7	-462.7
RMS	716.2	787.4	654.8	3613.1	2052	115.2
1/2 P-P	1527	1602	1435.3	5839.9	4359.2	221.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-173.5	-444.4	-55.7	-345.4	-650.1	997.8
2nd	-405.2	47.9	-574.6	10.2	405.4	-147.2
3rd	-476.8	339.1	-402.8	384.4	-651.1	-333.9
4th	85.7	86.4	204.8	75.9	1424	-1838
5th	62.8	-473.3	54.2	-579.4	-367.9	-680.5
6th	132.1	-54.7	78.5	-31	-20.4	47.3
7th	-9.5	7.2	-39.8	-1.2	-3.5	25.6
8th	-57.4	68	-88.9	234.9	438.5	169.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
22/10												
MEAN	1542.8		-3257.8		1646.7		-4011.7		-1011.6		-437.5	
RMS	499.3		3710.9		508.1		3779.1		3201.1		2306.1	
1/2 P-P	920.7		5937.8		951.2		6223.6		5400.2		4623.7	
HARMONIC												
1st	24.3	-176.6	-2642.6	-4456.9	262.6	-17.5	4389	-2921.1	3744.1	-2419.8	2103.4	-1687
2nd	157	-13	-407.9	-251.6	-172	0.2	476	296.4	407.4	244.8	404.1	64.9
3rd	-309.5	-522.4	15.2	-349.9	-514.4	300.6	-333.5	5.8	-239.6	43.8	199	253.2
4th	116.7	58.4	-133.8	172.9	131.3	57.2	78.8	-38.8	221.9	-274.8	825.6	-1400.7
5th	177.5	-55.4	-165	182.7	34.8	169.4	-238.6	-183.7	-110.2	-68.6	321.1	475
6th	-72.4	32.1	59.1	8.5	67.2	-18.8	-33.1	-22.5	-28.8	-11.9	12.7	62.6
7th	-2.7	-4.9	-30.4	3.6	-4.3	7.6	-7.9	36.4	-16.7	20.2	-37.3	-32.8
8th	-15.6	-114.4	-423.7	-160.7	-4.8	-73.1	-433.7	-171.2	-367.9	-189.6	-184.5	-107.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
22/10												
MEAN	-1594.9		-455.2		0		-5210.1		-543.1		-64	
RMS	2190.1		125.5		0		3758.2		121.9		14.3	
1/2 P-P	4574.3		231.5		0		6194.9		214		35.9	
HARMONIC												
1st	1212.6	-1333.4	-120.6	113.4	0	0	2636	4545.6	-96.3	-131.2	-7.3	13
2nd	401	-87.3	-18.3	33.2	0	0	-398.9	-263.3	24.4	-21.1	-7.8	5.4
3rd	504.7	338.5	35.9	-4.6	0	0	-42.8	315.7	5.9	-27.8	-2.6	-1.2
4th	969.8	-1979.9	-3.7	22.8	0	0	50.6	-14.3	2	15.6	2	1.4
5th	591.5	712.6	-10.9	11.6	0	0	233.2	-183.4	-15.9	-6.2	1.8	-2.1
6th	20.2	74.1	0.5	-0.7	0	0	24.3	49.8	-1.7	1.6	0.3	-0.4
7th	-19.9	-37.7	3	-1.2	0	0	6.5	14.8	-2.6	0.2	-3.2	-2.2
8th	182.4	59.8	-6.2	16.3	0	0	-398.2	-185.9	-6.8	19.8	1.9	-2.9

RUN/POINT 40/21	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3584.2	52	-1889.5	6.2	-492.2	-55.4	-3761.6	71.1	148.2	-130.8	-242	-205.4
RMS	337.1	-205	197.3	-114.1	76	-29.9	159.3	-33.8	136.5	41.9	286.7	124.2
1/2 P-P	634.3	16.2	359	5	174.4	-1	310.1	-43.9	301.5	0	588.8	57.5
HARMONIC		11.5		-6.4		1.8		11.6		7.4		16.8
	1st	-42.1	-19.5	-114.1	5	-4.6	5.4	-43.9	51.7	0	90.8	124.2
	2nd	400.4	242.7	-114.1	5	-4.6	5.4	-43.9	51.7	0	90.8	124.2
	3rd	-123	-66.1	-114.1	5	-4.6	5.4	-43.9	51.7	0	90.8	124.2
	4th	11.5	8	-6.4	-6.4	1.8	5.4	-43.9	51.7	0	90.8	124.2
	5th	-47	-15.7	-6.4	-6.4	1.8	5.4	-43.9	51.7	0	90.8	124.2
	6th	11.1	7.8	-6.7	-6.7	1.5	6.7	-0.3	60.2	13.1	-7.7	2.2
	7th	6.7	5	-4.2	-4.2	1.4	-18.8	-0.3	-9.9	19.3	-1.8	-7.7
	8th	-1	2.2	-3.1	-3.1	3.9	-19.1	-2.8	-6.6	0.8	1	1.7
RUN/POINT 40/21	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-355.2	-213.3	-399.7	-170.3	-157.3	-51.9	-8670.2	-514.5	-2613.1	-4.7	-365	-144.2
RMS	317.3	168.3	262.4	148.2	147.3	53.2	449.6	140.6	200.1	-41.6	113.3	19
1/2 P-P	617.7	92.4	522.2	117.8	387.2	120.6	896.2	-36.2	564.1	32.6	182.2	10
HARMONIC		-2.3	-0.6	-17.2	-32.2	-8.3	34.6	9.3	-16	-103.2	-1.5	-2.7
	1st	238.3	182.5	-170.3	-170.3	45.8	101.8	-514.5	-134	-4.7	62	-144.2
	2nd	-208.5	-117	148.2	148.2	12.1	-277.1	140.6	39.9	-41.6	-21.8	19
	3rd	41.8	-2.2	117.8	117.8	-5	34.6	-36.2	-16	32.6	-1.5	10
	4th	-2.3	-0.6	-17.2	-17.2	-32.2	-8.3	9.3	-16	-103.2	-1.5	-2.7
	5th	-110.2	-122.2	-45.2	-45.2	-69.3	67.6	-5.3	33.4	-1.1	-3.1	3.5
	6th	22.9	21.1	-22.9	-22.9	17	-3.5	24.7	-144	-34.2	0.6	-0.9
	7th	8.9	6.7	0.7	0.7	-7.3	-6.1	-25.7	1	22.5	0	-0.5
	8th	4.5	4.2	66.5	66.5	0.1	-43.9	-17.4	39.9	15.1	0.7	1.5

RUN/POINT 40/21	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3701.9	227.1	509.4	-127.7	-3686.6	23	-6802.5	599.3	-3576.2	513.3	-1284.5	223.6
RMS	345.3	198.7	244.7	-140.1	387	-187.6	564.4	148.5	464.1	106.7	278.5	29.3
1/2 P-P	619.1	114.7	-39.7	-14	694.3	-22	1006.6	53.8	842.2	37.7	589.6	-0.3
HARMONIC		9.4	-13.7	15.2		-10.1		5.3		-7.7		-70.2
	1st	46.4	10	55.6		-1.7		31		18.3		-8.5
	2nd	-353.7	23.7	-8.9		-12.7		12.2		8.2		-7.9
	3rd	20.9	-5	-0.5		3.7		-35.1		-27.9		-8.1
	4th	9.4	-24.7	-14.4		-19.8		-15.4		-13.7		-8.4
	5th	5.4										
	6th	-12.3										
	7th	-0.6										
	8th	-27.4										
RUN/POINT 40/21	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1696.8	89.2	-360.6	-67.1	0	0	-8028.6	83.4	-413.3	-70.4	-84.8	4.6
RMS	243.7	-10.8	127.8	-20.9	0	0	517.9	-116.9	115.1	-17.5	9.1	-0.6
1/2 P-P	587	-16.6	198.3	-2.7	0	0	883.3	40.7	185.6	-5.2	16.8	-0.5
HARMONIC		35.2	3.2	3.2		0		5.9		-0.5		-0.1
	1st	239	-100.3	0.4		0		-56.5		1		-0.1
	2nd	-1.5	-38.7	0		0		3.9		0		0.1
	3rd	28.5	-19.1	0		0		-0.1		0		0.1
	4th	35.2	21.4	0.4		0		0.4		-0.3		0.2
	5th	160.2	9.5	0.7		0		-27		0.1		0.1
	6th	21.2				0		-16.7		2.6		0.1
	7th	-1.8				0						
	8th	23				0						

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2215.9		-1039.4		-142.5		0		255.9		-153.5	
RMS	223.1		141.5		100		0		164.8		285	
1/2 P-P	424.4		255.5		192.7		0		349.1		565.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-57.8	-132.3	-33	-110.7	7	-119.4	0	0	36.8	-177.7	108.9	-278.2
2nd	202.8	-163.7	125.7	-92.2	32.4	-21.1	0	0	-56.4	40	-199.9	109.6
3rd	12.9	-51.1	11.4	-29.6	2.7	-7.9	0	0	-11.9	23.6	-46.3	90.7
4th	31.8	-0.8	19.4	-0.7	4	-2.9	0	0	-23.3	-0.4	-25.5	9.7
5th	-34.6	-49	-11.5	-19.9	11.6	19.4	0	0	38	67	5.1	2.3
6th	14.6	-14.1	8.7	-5.9	-0.8	3.6	0	0	-15.8	17.8	10.5	-2.4
7th	-3.7	0.6	2.4	-0.2	10.9	-0.1	0	0	12.4	1.1	-18.3	-5.4
8th	21	-42.4	3.4	-6.7	-26.3	40	0	0	-43	73.7	76.7	-69
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-360.6		-508.7		-370.6		-8048.7		-2553.7		-413.6	
RMS	331.8		323.9		206.3		558.4		416.7		113.6	
1/2 P-P	654.4		625.6		470.7		1129.2		1086.8		193.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	120	-277.6	110.9	-215.1	29.2	-57.3	64.6	-266.6	170.9	73.1	-136.1	
2nd	-238.9	150.7	-216.6	129.6	-93.1	46	178.2	94.7	-62.5	-34.8	19.4	
3rd	-60.1	133.8	-68.8	163.6	-71.7	146.3	-26.7	-52.2	8.4	-13.1	-0.2	
4th	1.6	-2.3	16.1	-19.5	8.5	-2.3	28.3	278.9	-242.7	0.5	4.8	
5th	-58.5	-140.6	-74	-168.1	-28.9	-135.3	69.2	-151.3	-165.2	-7.8	-0.7	
6th	25	-30.2	9.7	-27.4	-18	-12.5	14.7	2.9	-21.8	1.6	-3.4	
7th	-1.4	-0.5	12.6	-2.4	4.9	6.3	-18.3	21.9	16.7	1.3	0.2	
8th	-22.3	25.9	-71.1	112.2	-61.7	115.9	-133	51.5	126.9	-1.4	3.9	

RUN/POINT 40/22	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2325.5	240.3	-5550.9	-1005.4	-2303.4	217.3	-6193.6	39.5	-2984.1	59.2	-1047.6	-93.2
RMS	298.5	153.6	741.9	-185.2	327	-146.8	946.4	192.4	788.6	147.2	554.6	34.2
1/2 P-P	556.8	-27.9	1404.6	-32	598.9	54.9	1590.9	41.4	1308.8	36.3	1033.5	16.2
HARMONIC		4.7	-33.7	25.5		-0.4		-11.5		30		-119.8
	1st	241.4	-49.7	73.4	37.6	54.4	-74.9	-60.3	-34.6	-27.9	107	118.2
	2nd	-146.6	153.6	68.2	-185.2	-9.4	-19.5	-6.6	-11.9	-3.8	24.3	-0.6
	3rd	-59	-27.9	-31.5	-32	1.7	-9.7	-9.4	-8.1	-10.1	-3.1	-6.9
	4th	31.4	4.7	-33.7	25.5	-8	-54.7	-128.6	-51	-116.6	-26.1	-63.4
	5th	60	-49.7	-56.2	73.4	54.4	-74.9	-60.3	-34.6	-27.9	107	118.2
RUN/POINT 40/22	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1612	-155.1	-407.5	160.7	0	0	-7465.9	933.7	-471.1	-136	-87.8	7.4
RMS	466	-25.5	130	21.5	0	0	697.3	-158.1	116.1	28.7	11.3	-1.6
1/2 P-P	1038.8	11.3	218.7	-0.6	0	0	1239.4	49	194.5	4.6	21.6	0.1
HARMONIC		-178.5	3.2	6.7	0	0		1		2.6		-0.3
	1st	504.3	-79.6	160.7	0	0	-103.4	-65.5	-471.1	4.6	0	-0.2
	2nd	67.2	-25.5	-27.7	21.5	0	113.7	10.2	116.1	2.7	0	-0.3
	3rd	51.2	11.3	14	-0.6	0	30.4	-20	194.5	-1.3	-0.1	-0.2
	4th	164.2	-178.5	3.2	6.7	0	-15.1	-12.6		4.6	0	-0.2
	5th	194	179.3	6.4	-2.3	0	56.8	-129.4		2.7	-0.3	0
	6th	36.3	6.3	1.6	-1.8	0	12.4	0.8		6.8	-0.3	0
	7th	2.6	2.6	-1	-0.5	0	-12.6	7.9		-0.2	-0.3	0
	8th	27.4	52.8	-1.9	5.6	0	-54.9			-0.5		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-889.2		-217.5		194		0		367.8		-37	
RMS	266.3		163.7		121.3		0		226.9		347.9	
1/2 P-P	522.4		320.9		289.6		0		504.9		741	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-132	-176.6	-83.6	-139.7	-14.4	-144.1	0	0	12.1	-208.7	23.5	-334.4
2nd	103.6	-93.1	65.7	-51.5	8.5	-8.4	0	0	-56.4	30.8	-191.5	80.6
3rd	173.3	-137.3	99.8	-75.4	7.4	-16.5	0	0	-91.1	53.9	-214.5	153.4
4th	59.2	27.1	33.2	11.8	4.4	-9.1	0	0	-40.3	-25.9	-38.7	-10.5
5th	-29	-118.5	-10.4	-46.8	0.6	45.8	0	0	17.9	159.5	20.2	5
6th	25.7	-10.3	10.9	-5.3	-10.7	0.1	0	0	-38.1	10.4	20.6	6.1
7th	-10.9	4	-0.5	2.7	12.9	2	0	0	22.4	1.2	-24	-8.2
8th	14.5	-60.2	-1.5	-13.6	-30.4	51.3	0	0	-41.4	101.1	85.7	-99
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-320		-572.8		-557.2		-7297.4		-2505.7		-446.3	
RMS	446.7		477.8		349.1		1408		805.8		111.2	
1/2 P-P	961.6		1002.8		807.7		2423.2		1883.2		197.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-11	-335.6	30	-253.7	14	-64.4	-1729.8	895.7	-387.9	414.5	80.2	-121.5
2nd	-290.2	119.5	-342.4	88.2	-215.9	26.4	69	176.6	173.9	-96.4	-44.8	15.1
3rd	-186.3	217	-149.4	257.7	-158.1	199.7	86.8	-17.7	-179.9	-56	-24.8	-8.4
4th	32.8	32.3	80.6	24.1	105.8	43.5	-74.6	40.7	528.9	-557.2	-9.2	12.1
5th	-7.6	-308.4	-32.8	-366.9	15.5	-266.4	116.6	156.6	-232.4	-413.4	-9.2	-11.8
6th	55.8	-24.2	30.3	-28.4	-40.1	-29.4	-17	-26.1	13.2	27.6	4.1	-3.6
7th	-9.8	3.9	11.4	1.5	1.1	12.6	0.7	9.6	5.1	-7.5	-0.1	2.5
8th	-33.5	32.2	-74.1	150.4	-46.4	162.4	-94.2	-226.2	105.4	221.3	-2.9	5.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-983.2	-4815.7	-931.2	-5461	-2313.5	-814.6						
RMS	326.9	1577	325.9	1739	1453.4	1008.7						
1/2 P-P	718.7	2595.5	724.8	2940.1	2450.8	1856.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1			
1st	277.9	185.4	-768.9	-2054.1	-220.8	263.7	2291.7	-782.5	1927.7	-620.1	1182.7	-549
2nd	-57.1	71.8	-56.3	-196	61.5	-69.5	96.1	195.7	87.8	156.2	126.5	28
3rd	-163.1	-193.1	-19.3	-92.3	-188.6	154.8	-76.3	23.1	-52.6	31.6	60.9	62.5
4th	53	29.9	-48.5	56.5	62.9	27.4	25.7	-19.5	67.2	-76.4	241	-344.9
5th	121.5	-47.4	-145.1	94.5	38.8	116.7	-139.2	-135.4	-64.9	-62.7	168.2	276.2
6th	-29.9	9.2	25.7	8.8	31.2	-6.7	-32.8	-18.8	-20.1	-11.2	24.8	16.4
7th	3.7	9.7	2.3	36.7	10.8	-3.2	19.2	20.7	12.8	14.1	-6.4	-10.8
8th	6.9	-85.1	-118.5	-210	26.4	-55.9	-116.7	-235.9	-91.8	-216.2	-49	-123.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1541.3	-438.5	0	-6766.8	0	-512	-85.3					
RMS	858.7	126.1	0	1526.4	0	114.7	9.9					
1/2 P-P	1862.2	216.6	0	2566.4	0	199.6	19.6					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$		Blade 1	
1st	742.5	-488.1	-87	146.1	0	709.2	2001.2	-122.7	-92.4	11.3	6.3	
2nd	144.7	-50.9	-36.4	18.1	0	-37.2	-167	38	-8.7	3.1	-2.4	
3rd	146.8	72.4	25.6	5.7	0	12	93.3	14.6	-22.3	0.4	0.6	
4th	275.9	-485.6	-8.8	14.2	0	-19.1	-16.9	-6.7	12.2	0	0	
5th	330.7	430.8	8.1	5.1	0	163.2	-98.2	-6.2	9.3	0	0	
6th	43.4	24.3	4.4	-2.3	0	26.3	21.5	-4	1.7	0	0	
7th	-20	-22.3	1.2	-2.8	0	19.2	1	-2.1	-0.4	0	0	
8th	37.9	87.4	-5	6.8	0	-87.2	-219.4	-4.1	8.5	0	-0.2	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-299.8	149.1			345.1	0	421	17.5				
RMS	244.3	143.2			110.7	0	231.1	374.5				
1/2 P-P	482.8	275.7			275.4	0	530.8	769.4				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
	-94.5	-89.4	-63.2	-84.8	-2.5	-127.5	0	13.6	-219	-0.7	-375	-375
	23.5	-97.1	18.1	-54.4	-8.5	-7.9	0	-50.5	35	-160.7	86.7	86.7
	229.6	-141	130.3	-76.6	7.5	-18.3	0	-121.8	53.3	-272	142.7	142.7
	46.9	24.6	27	8.7	5	-12.5	0	-31.9	-28.4	-37.2	-8.8	-8.8
	-25.7	-103.5	-9.6	-38.9	0.6	44.8	0	15.7	148.2	20.1	0.5	0.5
	28.1	-13.2	10.5	-6.8	-13.8	-0.1	0	-45.3	13.2	21.6	2.4	2.4
	-8.8	0	-0.3	0.1	11.1	1.3	0	16.9	2.6	-18.9	-10.6	-10.6
	17.2	-45.1	-2.2	-9.7	-32.3	41	0	-46.2	80	82.8	-74.3	-74.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-312.7	-607.9	-641.1	-6872.3			-2479.5	-463.3				
RMS	465.4	487.8	363.9	1943.8			949.9	112.6				
1/2 P-P	967.7	993.7	839	3195.4			2206	215.9				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
	-51.5	-387.4	9.6	-293.2	14.2	-71.1	1241	-479.4	541.6	91	-114.5	-114.5
	-277.4	135.9	-367.7	100.6	-258.2	31.5	217.9	196.4	-107.6	-46	17.5	17.5
	-228.4	195.9	-182.9	236	-200.4	171.6	-1.1	-218.2	-97.6	-26.7	-13.4	-13.4
	33.8	46	92.6	41.7	135.3	67.9	44.2	514.4	-769.9	-7.6	12.1	12.1
	-2.3	-284	-19.9	-340	36.5	-246.1	132	-264.3	-367.5	-6.9	-12.7	-12.7
	63	-25.6	35.1	-24.9	-46.2	-32.2	-6.2	10.2	10	4	-4.8	-4.8
	-4.7	4.5	12.4	2.5	-0.7	15.2	-12	35.2	14.2	-0.2	2.2	2.2
	-35.3	29.6	-82.1	119.6	-54	127.8	-219.2	106.7	217.6	-4.1	6.1	6.1

RUN/POINT 40/24	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-390.7	-4400.9	-321.4	-5052.4	-1937.5	-669.7						
RMS	325.9	2117.7	320.5	2288.2	1915.2	1289.2						
1/2 P-P	762.2	3383.3	718.9	3770.9	3154.1	2372.7						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	185.4	227	-1093.7	-2751.1	-235.4	173.6	2993	-1134.8	2518.1	-914.8	1508.3	-754.1
2nd	20.8	72.2	-148	-236.9	-15.7	-71.1	187	229.3	159.6	187.8	169.6	40.5
3rd	-170.1	-258.7	-14.1	-115.8	-257.6	160.5	-97.7	8.9	-68	24.2	80.1	85.9
4th	41.7	32.3	-45.4	80.6	52.3	36	39.8	-23	64	-106.2	181.2	-518.6
5th	109.6	-44.6	-124	104.7	36	107.8	-146.6	-108.4	-69.7	-41.3	182.8	254.5
6th	-35.6	5.9	37	6.8	32.3	-0.3	-34.7	-21.4	-20.4	-9.4	28.1	26.5
7th	3.1	5.7	-24.9	15.6	8.7	-1.6	-13.5	-8.4	-10.9	-11.1	-6.2	-12
8th	7.2	-67.1	-116	-198.4	12.3	-42.2	-123.7	-223.1	-95.2	-206.1	-42.5	-115.4
RUN/POINT 40/24	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1492.9	-455.7	0	-6384.5	0	-533.1						
RMS	1061.3	128.1	0	2101.7	118.4	8.6						
1/2 P-P	2282.5	222	0	3405.5	205.3	18.5						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	931.3	-658.6	-97.9	141	0	0	1016.7	2760.3	-118.7	-104.1	8.2	6.9
2nd	174.1	-54.2	-35.4	23.1	0	0	-126.7	-197.1	38.6	-12.2	3.2	-2.8
3rd	193.4	107.1	28.4	11.8	0	0	2.5	115.3	19.7	-24.4	0.5	1
4th	170.7	-723.8	-12.8	15.6	0	0	1	-16.3	-7.6	11.1	0.1	0.1
5th	351.1	384.3	6.1	7.2	0	0	144.8	-104.3	-9.2	7.5	0.1	0.1
6th	44.9	41.9	2.4	-1.6	0	0	24.7	31.1	-1.7	2.9	0.2	0.1
7th	-4.4	-5.7	1.7	-2.2	0	0	-12.2	-26.5	-2.7	-0.2	0	-0.1
8th	45.6	83	-4.1	5.3	0	0	-96.3	-213.4	-3.1	7.6	0.3	0

RUN/POINT 40/25	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	408.6	-3849.5	482.8	-4496	-1446.5	-507.4					
	RMS	353	2537.2	346.7	2665.9	2248.2	1551.5					
	1/2 P-P	637.9	4073.5	587.5	4356.8		2903					
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	156.1	-114.4	-1937.7	137.3	3086	-2077.1	2630.6	-1710.7	1522.9	-1236.7	
	3rd	90.6	9.1	-305.3	-87.7	342.2	204.5	288.9	170.7	263.3	25.7	
	4th	-212.5	-335.8	3.9	-183.1	-176.5	19	-127.6	38.3	113.2	133.8	
	5th	64.6	46.9	-84	66.2	21.6	-4.7	92.4	-121.1	399.6	-670.4	
	6th	171	-41.3	-187.4	148.9	-177.3	-173.9	-83.3	-66.8	202.5	417.3	
	7th	-40.6	10.8	31.8	16.1	-16.3	-22.3	-10.5	-8.7	25.6	44.5	
	8th	5.6	4.3	12.9	3.2	20.4	-0.3	12.9	-2.3	-11.6	-18.4	
		2.3	-74.5	-188.8	11.9	-196.3	-259.8	-156.3	-247.8	-73.4	-142.7	
RUN/POINT 40/25	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1435.2	-466.4	0	-5850.5	-547.2	-77.8					
	RMS	1360.3	126.2	0	2522.6	119.4	4.6					
	1/2 P-P	2767.1	218.8	0	4126.7	213.4	10.2					
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	898.9	-991.6	-104.5	132.2	0	1914	2956.9	-111.4	-114.6	3.1	-1
	3rd	245.3	-72.8	-32.4	21.8	0	-304.1	-150.7	36.4	-8.8	3	-2.9
	4th	276.5	177.3	32.9	9	0	-14.1	172.3	17.4	-25.1	0.5	1.1
	5th	464.3	-954.6	-13.8	16.3	0	2.3	-2	-7	13.1	-0.2	0.1
	6th	408.8	637.7	5.2	10	0	216.3	-134.5	-13	6.3	-0.1	0
	7th	27.9	59.8	3.6	-0.7	0	-2.5	27.5	-3.7	1.6	-0.1	-0.1
	8th	-29.4	-8.6	2.5	-2.1	0	17.4	-29.1	-1.9	-2.5	0	-0.1
		75.4	90.8	-4.6	7.6	0	-159.4	-257.6	-4.6	8.5	0	-0.1

RUN/POINT 40/26	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	993.4	-3328.6	1085.7	-3986.6	-989.6	-327					
	RMS	408	3563.9	378.2	3594.9	3023.6	1995.6					
	1/2 P-P	899.1	5643.4	814.6	5768.5	4892.7	3656.5					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	155.4	200.8	-4440.1	-144.5	4400.8	-2450.6	-2012.9	2148.8	-1436.9		
	2nd	138	-9.7	-263.1	-132.7	367	292.5	242.5	280.1	61.2		
	3rd	-244.6	-374.4	-253.3	-360.2	-241.5	23.1	40.7	137.2	148		
	4th	74.4	53.9	92.4	85.6	47.4	-34.1	124.2	461.6	-809.1		
	5th	176	-27.2	123.4	17.5	-162.6	-179	-74	207.5	446.2		
	6th	-50.8	7.8	26.2	45.2	-35.9	-36.7	-22.5	32.7	53.5		
	7th	5.9	2.1	7	5.5	-3.7	9.7	0.7	-17.2	-19.6		
	8th	-2.6	-76.3	-223.7	4.3	-236.9	-238.5	-231.9	-94.3	-135.3		
RUN/POINT 40/26	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1366.8	-472.2	0	-5349.4	-555.5	-72.8					
	RMS	1649.4	123.5	0	3561.7	119.8	4.4					
	1/2 P-P	3440.8	218.1	0	5656	213.8	10.4					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	1269.5	-1154	122.7	0	2278.1	4447.4	-104.1	-123.9	-0.9	1.4	
	2nd	263.5	-65.2	22.4	0	-337.2	-245.5	32.6	-9.9	3	-3.6	
	3rd	345.2	198.9	6.6	0	-2.2	239.9	14.5	-19.8	0.4	0.7	
	4th	530.9	-1144.8	20.5	0	13.5	-40.9	-2.6	16.8	0	-0.1	
	5th	410.9	672.3	11.1	0	205.4	-88.9	-13.8	1	-0.1	0.1	
	6th	47.9	77.9	-0.8	0	10	48.4	-3.4	0.1	0	0	
	7th	-19	-10	-2.8	0	3.4	-34	-3.4	-1.3	0	0	
	8th	98.4	79.6	8	0	-202.4	-240.2	-4.9	-0.1	0	0	

RUN/POINT 40/27	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	1811.6	1460.9	884.2	0	614.9	235	504.3	1017.6			
RMS		396.9	219	125.8	0	317.4						
1/2 P-P		743.1	388.7	321.1	0	670.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-55.7	-41.6	-48.5	14.2	0	0	3.2	-252.4	-87.6	-433.8	
	2nd	-154.6	10.5	6.4	-44.8	0	0	-41.3	24.9	-164.8	22.7	
	3rd	418.3	-260.7	-140.8	11.5	0	0	-220.7	99.8	-467.7	229.1	
	4th	80.8	59.9	23.2	8.7	0	0	-53.9	-66.8	-72.9	-33.3	
	5th	15.4	-162.3	-60.2	-20.3	0	0	-47.3	225.4	42.9	-7.7	
	6th	46.8	-9.9	-4.9	-24.5	0	0	-73.4	3.9	36	20.8	
	7th	-2.1	7.3	2.6	6.3	0	0	5.6	-6.5	-6.9	-3.2	
	8th	-3.2	-60.1	-18	-31.4	0	0	-29.1	94.9	70.2	-94.2	
RUN/POINT 40/27	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Chord Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Torsion, in-lb Blade 1, $r/R=0.400$			
	MEAN	-204.1	-649.3	-882.8	-5033.2	-2356.8	-481.9					
RMS		654.1	716.3	578.1	4556	1874.6	117.9					
1/2 P-P		1311.8	1480.9	1239.4	7059.8	3850.1	222.3					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-207.1	-462.2	-346.6	2.3	-5362.4	3485	-872.9	1162.5	121.8	-90.2	
	2nd	-403.4	55.5	1.6	-505.6	479.8	296.9	367	-132.7	-29.5	26.2	
	3rd	-384	277.8	323	-340.6	295.4	62.4	-578.2	-260.1	-38.1	-1.4	
	4th	52.4	91.2	88.9	231.8	-106.7	64.9	1103.3	-1624	16	21.7	
	5th	118.6	-409	-494.3	175.3	133.5	145.7	-256.7	-517.9	11	-26	
	6th	97.6	-17.9	5.1	-69	-27.1	-8.9	3.1	44.4	4.6	2.1	
	7th	1.8	12	-11.1	-56.1	17.4	-18.3	4.5	19.2	-3.4	2.6	
	8th	-44.1	39	141.3	-11	146.9	-259.8	272.5	256.4	-6.3	9.4	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1747.7		-2624.6		1861		-3283.6		-356.2		-83.3	
RMS	514.2		4724.3		460.8		4681.3		3945.6		2557.5	
1/2 P-P	1124.8		7240.8		985.2		7402.1		6274.2		4595.7	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	115.3	349.6	-3046.9	-5891.6	-239	78.8	5670.6	-3316.1	4808.5	-2737.5	2743.8	-1912.5
2nd	195.8	-25.7	-461	-350.7	-185.5	19.5	480.3	367.3	405.3	306.3	350.9	98.9
3rd	-294.3	-460.7	20	-323.8	-447.3	282.3	-282.8	-18.9	-193.8	14.8	214.4	184.3
4th	91.3	58.1	-45.9	127.1	97.6	61.7	66.8	-58.9	148	-233.5	486	-1086.6
5th	179	-5.8	-161.5	117.6	-7.5	164.6	-173.1	-133.6	-84.1	-34.5	202.3	415.2
6th	-53.1	16	30.3	9.4	51.1	-8.1	-29.4	-9.7	-23.6	2.5	14.5	55.7
7th	8.7	0.5	24.4	17.1	2	-8.6	32.7	6.6	23.3	-1	-16.3	-22.1
8th	-15.9	-87.8	-272.2	-228.4	2	-53.3	-293.1	-265.4	-241.9	-259.6	-119.2	-155.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1279.8		-475.9		0		-4673.5		-563.7		-64.6	
RMS	2057.8		128		0		4726		126.2		9.2	
1/2 P-P	4076.4		225.7		0		7366.9		221.6		20.5	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1611.2	-1512.7	-129.3	112.1	0	0	3029.3	5910.4	-95.8	-142.1	-11.3	-0.3
2nd	333.8	-43	-21.1	30.3	0	0	-413.4	-343.9	25.2	-19.3	2	-4.9
3rd	489.1	252.9	31.6	1.2	0	0	-46.9	280.3	8.4	-18.5	0	0.6
4th	531.1	-1517.7	-0.5	26	0	0	18.1	-52.6	6.7	20.1	-0.2	-0.1
5th	406	611	-6.9	12.6	0	0	195.8	-112.3	-15.3	-5.4	0	0.1
6th	25	63.4	1.5	-4.1	0	0	23.5	14.6	-3.7	2.2	-0.2	-0.1
7th	-46	-21.3	2.5	-3.4	0	0	32.1	-19.6	-4.6	-1.9	-0.1	0
8th	118.2	84.6	-4.4	10.4	0	0	-233.9	-250.7	-6.7	12.8	0	0.2

RUN/POINT 40/28	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3305.2	2390.1	1264.6	0	755.8	395.6						
RMS	565.4	320.3	125.7	0	334.2	561.5						
1/2 P-P	1122.5	636.7	306.3	0	720.5	1155.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-106.2	123.8	-85.5	63.6	10.5	-97.6	0	0	-2.3	-263.4	-141.2	-465.6
	-442.6	32.3	-261.3	15.5	-97.9	20.4	0	0	-14.8	27.2	-92.6	-5
	516.1	-331.7	291.8	-180.8	13.5	-35.4	0	0	-267.4	123.2	-548.7	262.2
	83	58.2	47.8	17.9	13.7	-32.6	0	0	-49.7	-77.2	-92.5	-39.6
	2.2	-149.2	2.4	-56.8	-9.2	60.3	0	0	-20.8	203.1	40.6	-17.6
	47.5	-11.9	16	-6.8	-27.1	-5	0	0	-77.5	6	49.1	27.2
	-4.1	8.4	1.7	2.5	9.7	-4.3	0	0	11	-8.6	-15	-2.1
	-22.7	-54.8	-19	-15.3	-16	46.1	0	0	0.6	92	38.6	-100.2
RUN/POINT 40/28	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-128.6	-674.9	-1029	-3369.3	-2222.9	-441.8						
RMS	689.4	756.2	653.1	6763.2	2561.8	153.1						
1/2 P-P	1424.5	1662.1	1466.2	10229.4	5044.2	275.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-310.3	-517.2	-144.3	-405.6	-15.4	-131.6	-7567.9	5731	-1131.4	1739	147.5	-102.1
	-412	37.8	-727.2	-12.9	-656.2	-8.1	921.1	353.1	502.8	-104.1	24.3	77.4
	-445.8	237	-332.9	264.4	-388.5	140.1	407.5	96.9	-780.5	-396.6	-28.2	32.2
	37	80	144.7	52.8	260.4	50	-138	134.2	1281.7	-2385.5	46.6	52
	67.5	-362	62.6	-442.3	145.2	-318.7	137.9	82.3	-313	-419.9	22.6	-20.4
	87.8	-29.4	39.2	18.2	-90.5	20	-12.6	-22.6	-6.7	93.4	-4.4	-12.1
	9.3	9.3	-11.3	-27.3	-55.2	3	38.2	9.2	2.3	9.6	-7.2	1.2
	-36	48	-4.7	131.5	40.7	119.8	-316.8	-171.4	340.8	161.2	-1.6	6.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3209.7	-1156.7	3405.9	-1886.6	895.2	386.1						
RMS	647.4	6695.9	605.3	6498.9	5494.5	3515.6						
1/2 P-P	1313.7	10151.6	1285.1	9954.4	8498.6	6231.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	-95	285	-8035.1	-136.5	7199.3	-5600.1	6137.8	-4663.5	3427.3	-3104.6		
2nd	489.6	-78.5	-406.9	29.2	884.9	389.4	723.3	339.1	540.8	127		
3rd	-356.1	-554.7	42.7	347.3	-385	-9.4	-262.3	48.8	300.1	309.2		
4th	104.4	53.3	255	49.5	77.2	-45.1	163.6	-303.1	486.4	-1525.6		
5th	200.3	-9.3	153.7	165.7	-160.7	-87.6	-68.5	-6.7	266.1	383.4		
6th	-56.9	26.4	-26.6	-7	-36.9	-22.2	-29.5	1.2	23.1	82.2		
7th	9.3	7.3	13.8	-8.1	5.7	15	-0.9	4.3	-30.5	-29.3		
8th	-36.5	-80.2	-152.2	-41	-328.8	-158.4	-283.9	-170.6	-143.3	-109.2		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1112.6	-443.3	0	-3191.1	0	-548	36.3					
RMS	2794.4	160.8	0	6865.8	156.4	29.3						
1/2 P-P	5417.3	278.7	0	10600.5	268.1	47.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1949.3	-2363	-158.2	113.1	0	5018.5	8236.7	-89.4	-176.6	-37.9	-13.3	
2nd	459.2	-19.6	31.2	76.5	0	-856.8	-441.4	-24.5	-60.7	-3.8	-8.7	
3rd	676.5	425.8	36.3	-33.3	0	-102.9	361.9	-19	-26.8	-0.5	-0.8	
4th	484.6	-2137	29.9	52.5	0	46.7	-19.7	23.4	51.4	-0.2	-0.8	
5th	474.7	548.3	-21.5	16.3	0	107.7	-162.6	-17.1	-21	-0.1	0	
6th	45.7	103.6	-2.8	-7.4	0	14.5	12	-1.3	7.6	0.1	0	
7th	-48.7	-41	4.1	-1.8	0	-3.9	12.3	-4.7	-6.1	0	0	
8th	130.4	43.7	-2.9	10.2	0	-298.9	-169.3	-5.2	12.9	0	0	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3567.1		-1875		-478.5		165.3		171		-195.5	
RMS	292.6		167.9		62.7		104.8		130.6		266.9	
1/2 P-P	593.2		329.2		128.4		238		288.7		567	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-199.9	100	-114.3	33.5	-20.5	-44.8	37.1	-109.3	58.1	-135.2	176.6	-219.6
2nd	303.8	-134.6	185.3	-72.7	55.9	-16.7	-24.5	18.3	-55	32.3	-202.8	88.8
3rd	-85.5	-20	-43.7	-13.6	-0.7	-3.8	29.2	4.8	40.6	10.1	60.3	62.5
4th	9.2	-12.1	6.5	-6.6	2.2	-1.9	-5.1	3	-10.2	6.4	-16.5	13.1
5th	-21.8	9.8	-6.1	3.9	13.7	-1.5	29.7	-5.6	32.1	-8	-2.6	-3.7
6th	4.8	-5.7	3.1	-2.6	0.5	1	-4.5	5.6	-6.8	6.7	4.9	-0.5
7th	-1.7	4.7	2.2	1.7	7.3	-1.4	7.6	-2.1	4.5	-2	-8.2	0.2
8th	17.8	-28.7	4.3	-6.3	-16.6	22.6	-34.8	44.6	-32.8	44.1	55.4	-40.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-333.8		-390.8		-170.4		-8546.9		-2848.7		-368.7	
RMS	286.3		244		129.9		478		175.7		114.1	
1/2 P-P	528.8		485.8		351.1		979.5		478		191.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	217	-220.1	174.9	-176.5	48.8	-52.6	294.7	-542.1	-83.4	9.2	69.8	-141.8
2nd	-195.8	135.2	-124.6	130.9	-6.5	58.9	-198.6	93.5	31.2	-32.6	-20	21.9
3rd	21.1	74.6	-13.8	82.4	-15.1	82.8	19	-20.6	-18.3	40.2	-7.3	1.9
4th	-14.7	-5.5	-13.3	-16.6	-35.7	-13	6.2	19.8	12.4	-128.2	6.3	2.2
5th	-60.3	1.3	-64.8	6.4	-27.2	-3.4	44.7	-19.1	-95	28.3	-3.4	2.5
6th	14.9	-12.3	4.1	-13.5	-4.1	-0.4	-0.5	-8	3.5	5.5	-0.1	-1.6
7th	3.1	3.3	9.6	1.9	-0.6	-1.2	-10.6	24.8	8.3	-21.1	0.9	-0.1
8th	-12.8	13.7	-53.2	68.1	-53.4	70.9	16	-47.2	-10.4	45.7	-1	1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3742.2		-6238.8		-3728.1		-6788		-3546.2		-1289.5	
RMS	240		318.1		289.4		420.7		344		196.4	
1/2 P-P	438.4		639.1		536.4		830.9		678.8		459.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	19.3	107.8	359.6	-100.4	-231.9	-48.4	231.2	459.4	183.6	386.7	198.1	129.6
2nd	-277.4	123.2	167.2	-88.8	290	-134.9	-209.8	115.9	-161	83	-61.5	24
3rd	-26.5	77	-22.7	-14.9	76.5	15.9	-12.4	29.7	-1	24.3	23.8	4.8
4th	11.4	-10.3	3.8	22.3	14.3	-8.1	10.9	1.3	12.6	-12.7	6	-66.6
5th	-3.4	-22.2	23	24.8	20.1	-14.4	-33.4	23.4	-17.5	10.4	55.5	-26
6th	-8.5	7.4	3.2	-12.8	11.4	-5.9	-5.6	2	-0.4	-0.7	-0.2	-5.2
7th	3	3.8	-5.2	33.8	0.3	-5.2	8.7	38.5	0.1	27.7	-6.6	-9.4
8th	25.2	-47	9.9	-56.2	29	-17.5	20.8	-62	18	-50.2	13.2	-35.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1902.8		-366		-3464.5		-8059.8		-414.2		-94	
RMS	188.2		132.4		260.1		434.5		117.2		8	
1/2 P-P	482.4		215.5		526.6		865.6		194.1		18.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	180.9	26.6	-76.7	167.7	86.3	46.2	-518.4	-183.9	-144	-77.2	5.1	-8.1
2nd	-12.7	-12.2	-17.8	24.2	-307.9	126.9	198.8	-72.6	13.6	-20.4	-1.5	2.4
3rd	29	-15.5	8.4	0.3	26.2	-101.3	30.4	29.8	-0.5	-7.2	-1.6	3.5
4th	-1.3	-99.6	6.5	2.6	10.6	-9.4	10.9	1.5	6.2	-1.3	0.5	0.8
5th	89.2	-52.8	2.6	-3.1	23.3	24.5	-32.1	-40.7	3.6	3.2	-0.9	0.9
6th	9.2	-12.2	0.2	-1.1	-8.2	4.2	18.7	-6.6	-0.3	1.6	-0.4	-0.3
7th	-3.7	-22.2	-0.6	0.2	-3.4	-0.6	-0.9	23.8	-0.3	1.4	0.1	0
8th	-14.4	26	-2.7	2.7	18.2	-36.5	21.6	-46.4	-2.6	4.1	-0.2	-0.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
16/14												
MEAN	-2378.7		-5429.7		-2353.6		-5987.3		-2813.7		-1002.4	
RMS	192.5		422.2		152.5		444.8		378.1		345.9	
1/2 P-P	356.1		781.2		307.1		883.5		759.9		797.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	171.1	-116.7	-257.2	-494.4	25.6	109.8	555	-172.7	481	-139.5	361.3	-228.9
2nd	-105.9	83.5	-14.5	-96	120.7	-96.2	-23.1	131.5	-12.7	101.4	40.2	24.7
3rd	-66.6	-43.5	-19.2	-27.8	-36.9	57.3	-27.9	23.7	-17.2	23.9	31.2	22.7
4th	23.8	7.9	-22.1	10.2	29.1	12.4	-1.1	16.3	19.1	-14	91.5	-136.8
5th	54.8	-16	-64	42.5	12.5	48.2	-40.5	-71.3	-19.6	-36.3	47.9	112.1
6th	-12.4	3.4	18.3	-6.6	13.2	2.6	-7.7	-8.3	0	-4.8	3.8	8.5
7th	-0.2	7.1	-25.1	15.4	4.2	0.8	-12.5	26.7	-14.3	18.2	-12.5	-10.1
8th	20.4	-35.6	-27.7	-80.7	13.6	-20.2	-25.8	-87.3	-18.6	-76.3	-4.5	-49.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
16/14												
MEAN	-1786.5		-406.2		-2125.4		-7310.1		-466.1		-95.7	
RMS	355.1		128.7		250.6		183.5		113.4		9.4	
1/2 P-P	830.7		208.9		467.6		481.5		182.9		20.5	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	263.6	-236	-85.3	156.2	-56.7	287.2	111.4	104.6	-129.9	-88.1	5.4	-9.7
2nd	58.5	-21.2	-26.6	19.4	-150.6	85.5	32.3	-67.1	25.3	-13.8	-5.9	1.5
3rd	47.9	7.4	13.9	4	66.2	12.6	21.7	48.9	4.5	-9.9	-0.9	1.3
4th	115.9	-213.2	-5.7	7.4	26.5	8.4	0	6.7	-2	5.4	-1	1
5th	94.5	186.2	4.3	0.5	-37	23.8	66.4	-38.5	-0.6	5.5	-0.7	-1.1
6th	19.5	8.7	2.4	-0.3	-13.1	1.6	19.1	10.7	-2.2	0.6	0.4	-0.2
7th	5.9	-18.9	0.1	-0.5	-0.4	-2.9	-8.8	17.8	-1.4	0.3	-0.4	-0.4
8th	9.5	31.6	-2.5	1.7	7.1	-39.2	-20.9	-83.3	-2	3.4	-0.1	0.2

RUN/POINT 16/15	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-901.3	-221.8			198.5		453.8		393.2		18	
RMS	226.9	148			114.2		160.4		188.1		308.7	
1/2 P-P	424	259.1			228.8		368.9		415.9		627	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-67.6	-229.4	-42.5	-168.6	9.4	-150.9	25	-180.6	33.4	-204.7	38.3	-332.1
	68.4	-74.6	44.1	-40.3	2.2	-6.6	-33.8	16.2	-52	25.5	-176.4	56.8
	131.7	-83.9	75.8	-46.3	5.6	-13.3	-46.8	12.9	-70.2	27.8	-175.5	96.5
	30.9	30.2	18.3	13.8	4.2	-6	-12.5	-20.3	-20.1	-23.9	-25.3	-13.5
	14.2	-82.8	6.6	-32.1	-11.2	29.1	-29	88.2	-32.9	108.4	11.7	6.7
	22.4	1.5	10.4	-0.1	-4.8	-3.2	-21.5	-3.9	-26.7	-3.1	8.5	9.8
	-5.4	3.4	0.6	2	9.6	1	13.1	1.8	10.3	2.2	-14.6	-7.6
	12.8	-28.4	1.1	-9.5	-17.7	17.9	-32.9	39.7	-30	40.5	48.2	-36
RUN/POINT 16/15	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-282.1	-544.7			-557.2		-6773.4		-2674.8		-451	
RMS	378.6	390.1			273.7		1504.2		600		109.6	
1/2 P-P	772.5	814.2			654.5		2484.2		1399.1		190.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-319.7	-3.7	-272.3	71.3	-327.6	36.6	-217.1	94.3	-410.2	445.4	91.1	-114.7
	-159.1	157.2	-159.1	157.2	-133.1	188.7	-145.3	88.1	143.9	-60.2	-41	10.9
	13.2	27.7	13.2	27.7	48.4	34.9	76.2	-24.5	-137.7	-46.1	-18	-10.3
	80.3	-209.5	80.3	-209.5	83.5	-257.3	86.6	30.6	255.5	-289.3	-8	9.5
	43.9	-3.9	43.9	-3.9	29.1	-11.9	-21.1	-15.9	-27.6	-319.6	-2.3	-9.9
	-2.3	2.2	-2.3	2.2	11	-1.7	3.4	-8.2	17.8	29.9	3.4	-0.9
	-17.3	7.4	-17.3	7.4	-53.2	60.8	-39.9	-18.5	15.2	-4.2	0.3	0
									28.6	149.4	-2.2	1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1051.5		-4509.7		-995.7		-5044.4		-1953.1		-661.5	
RMS	371		1829.8		343		1875		1567.9		1059	
1/2 P-P	734.5		2922.1		707.3		3077.2		2563.3		1828.3	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	272.2	378	-1134.9	-2300.8	287.6	2382.1	-1106.3	2006.7	-897.1	1237	-726.8	107.5
2nd	43.9	-22.2	-118.6	-178.4	-65.5	93.2	213.6	80.6	171.9	107.5	62.3	49.3
3rd	-165.2	-110	-10	-81.2	94.1	-72.6	13	-49.1	20.7	49.3	63	35.8
4th	33.2	25.6	-42.8	18.1	37.7	8.2	7.2	35.8	-38.8	158.3	-247.2	14.9
5th	4.1	105.2	-110.4	39	95.6	-42	-127.1	-21.3	-52.5	14.9	237.3	6.2
6th	-0.7	-21.7	20.8	10.2	2	-13.3	-15.3	-4.9	-6.9	6.2	20.3	-12.4
7th	11.6	1.9	-5.1	35.3	-1.7	16.1	46.1	6	34.8	-12.4	-13.4	-0.7
8th	-43.3	22.6	-39.3	-155	-21.6	-30.1	-172	-16.6	-152	-0.7	-92.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1653.7		-443.1		-818.6		-6413.3		-513.7		-93.7	
RMS	826.6		125.4		257.3		1642.4		110.9		15	
1/2 P-P	1582.5		208.7		514.1		2667.1		189.2		31	
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-605.7	786.2	-97.8	-258.4	-119.3	1007.8	2067.8	-112.2	-101.3	16.1	-9.7	-8
2nd	-16.8	123.3	-35.4	-66.4	49.1	-94.1	-161.3	33.7	-5.2	-8	1	-1.4
3rd	63.7	114.2	20.7	110.1	138.4	7.6	89.5	12.4	-12.8	-1.4	-2.1	7.5
4th	-366.9	195.7	-11.3	33.2	32.9	7.2	-4.4	-6.8	7.5	-1.8	1.2	-1.5
5th	383.8	67.7	2.9	-88.3	9.5	115.8	-38.4	-6.5	4.3	-1.5	-2.6	0.3
6th	27	19.6	2.3	-24.4	-2.3	11.6	6.7	-3.2	0.4	0.3	0.1	-0.2
7th	-36.8	-14.6	0.2	-2.8	-7.1	8	22.6	-1.1	-0.2	-1.7	0	0.8
8th	58.2	12.6	-3.7	17.5	-40.3	-13.4	-154.2	-4.1	3.6	0.8	0	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
16/16												
MEAN	-211	204.7	374.1	532.2	455.6	82						
RMS	254.1	147.1	80.6	161.1	198.7	339.8						
1/2 P-P	495.3	269.6	190.7	373.8	452.5	696.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-244.4	55.1	-154.8	3.7	-36.1	-85	-163.3	4.4	17	-199.9	-2.5	-357
2nd	16.3	-51.5	12.4	-27.5	-9.2	-1.6	-32.6	16.7	-46.9	24.4	-156.6	48.8
3rd	203.1	-89.4	115.1	-49.3	7.7	-16.9	-72.2	10.8	-106.8	26.9	-251	94.3
4th	43.8	35.8	25.7	16.2	7.2	-9.6	-13.3	-29.2	-23.7	-34.5	-29.6	-17.8
5th	-6.7	-92.7	-1.8	-34.7	-4.2	37.8	-7.2	106.3	-5.9	129	12.3	4.9
6th	20.8	0	8.9	-1.2	-6.9	-2.9	-23.6	-3.1	-28.6	-2.8	10.1	7.2
7th	-6.6	-6.8	0.6	-3.5	9.4	1.7	13.9	7.2	11.7	8.7	-13.7	-13.8
8th	12.3	-26.3	-1.7	-8.7	-21.9	17.9	-37.2	38.1	-33.1	38.7	52.2	-34.1
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
16/16												
MEAN	-255	-564.9	-640.9	-6190.1	-2625.1	-461.9						
RMS	420.8	441.8	325	1620	778.8	109.2						
1/2 P-P	845.6	915.3	760.8	2744.6	1783.1	199.3						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-64.3	-352.3	1	-253.3	14.8	-58.3	-1970.4	1101.5	-408.4	501.1	95.8	-107.5
2nd	-280.7	57.3	-379.8	14.7	-277.5	0.9	160.6	142.2	170.7	-71.4	-43	11.3
3rd	-225.3	158.4	-180.3	192.8	-194.9	116.7	115.1	5.1	-194	-109.6	-21.8	-16.2
4th	25.3	43.5	73.3	57.1	120.2	74.7	-28.3	8	423.3	-507.4	-6.1	12.3
5th	33.3	-244.3	24.1	-300.9	50.2	-195.3	78.4	166.7	-133	-429.4	-2.6	-11.2
6th	49.3	-1.6	31.9	-5.5	-32.8	-28.4	-12.9	-26.8	6.2	35.1	4	-1.4
7th	-3.7	-2.1	11.9	1.8	3.4	5.1	-15.8	12.2	17.1	1	-0.8	-0.4
8th	-21.1	8.9	-53.9	58.8	-33.2	73.4	-87.8	-165.2	100.4	159.7	-2.1	1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
16/16												
MEAN	-345.7		-3964.2		-280.9		-4473.6		-1455.2		-494.7	
RMS	235.6		1974		219.7		2000		1677.2		1155.1	
1/2 P-P	552.7		3206.2		497.3		3335.3		2808.9		2082.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	88.3	94.9	-1153.3	-2513.5	-104.7	1.5	2563.2	-1125.2	2159.7	-925	1298.5	-760.2
2nd	24.9	21.5	-168.9	-152.8	-14.2	-45.1	154.4	183.4	127.3	150	134.7	53.1
3rd	-125.6	-240.6	3.4	-109.4	-241	97.4	-95	-0.3	-69	18.8	61.9	101.6
4th	39.2	39.6	-54.8	25.4	40.5	45.4	-1.1	8.7	58.4	-63	311.8	-392.8
5th	110.8	-20.8	-126.4	77.6	14.6	100.5	-100.7	-152.6	-47.7	-69	103.8	291.6
6th	-23.3	0.9	25.3	7.1	19	2.6	-13.6	-6.2	-7.2	-2.9	9.5	16.4
7th	-2.2	12.7	-19.1	23.4	6.2	6.3	5.5	43.3	-2.4	30.7	-8.2	-9.5
8th	21.3	-41.8	-101.4	-155	14.4	-18.1	-99.4	-175.2	-76.2	-160.7	-27.4	-97.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
16/16												
MEAN	-1584.9		-453.9		-132		-5877.8		-528		-88.4	
RMS	985.1		123.2		203.7		1784.5		112.2		10.3	
1/2 P-P	2087.2		213.6		398.7		2984		192.5		22	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	810.1	-654.9	-101	131.8	31.1	44.6	1018.2	2280.2	-106.7	-108.1	9.7	-2
2nd	143.5	-25.8	-35.8	15.5	-13.9	25.5	-154.3	-124.1	36.1	-4.1	-8.8	1.1
3rd	156.5	130.4	25.6	15.4	120.3	219.5	-8	115.4	17.1	-14.6	-1.7	-2.9
4th	395.4	-592.8	-11.7	11	42.7	41	2.5	4.8	-6.2	8.8	-1.3	0.9
5th	216.5	461.2	2.8	5.9	-95.9	36.2	138.9	-80.2	-6.4	4.4	-0.9	-2.4
6th	16.4	17	3.1	-1.5	-22.9	-4.1	15.1	11	-3.8	0.6	0.4	0
7th	-8.3	-35.6	0.6	-0.4	1.3	-9	6.8	31	-1.7	-0.5	-2	-0.5
8th	35.5	60	-3.3	2.8	9.1	-33.3	-81.9	-162.6	-4	3.4	0.6	-0.3

RUN/POINT 16/17	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	460.2	-58.6	-141.5	-64.5	-27.7	-120.9	4	-186	14	-222.5	-25.9	-392.1	
RMS	261.8	-55.6	-16.8	-30.4	-19.8	-2.3	-34	17.2	-46	24.5	-157.2	42.7	
1/2 P-P	509.8	-97.7	131.5	-53	4.9	-17.5	-89.5	13.4	-130.2	31	-296.2	99.6	
HARMONIC	40.2	45.6	22.7	19.9	5.8	-12.6	-15.7	-35.9	-26.7	-42.8	-36.1	-23.7	
	6.5	-102.5	1.6	-38	-13.7	42.4	-29.1	119.5	-31.5	144.9	19.2	2.2	
	30.7	-0.3	13.3	-0.6	-9.7	-3.4	-33.4	-3.1	-40.8	-2.2	16.8	10.6	
	-8.6	-5	-1.8	-3.3	7.3	0.8	11.3	6.3	9.1	7.6	-12.2	-10	
	12.2	-17.7	-3	-7.5	-24.8	9	-41.5	22.2	-37.9	23.6	52.1	-13	
RUN/POINT 16/17	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-226.8	-385.6	-22.9	-271.2	11.8	-58.9	-2852.4	1911.3	-530.9	716.5	104.3	-101.3	
RMS	469.2	40.5	-451.6	-16.2	-347.3	-18.9	242	218.9	208.6	-75.7	-43.4	12.8	
1/2 P-P	943.9	165.7	-196.5	204.5	-224.4	112.6	156.1	24	-261	-156.9	-22.4	-17.9	
HARMONIC	33.4	52.9	93.2	72.9	153.1	95.1	-38.1	15.6	564.5	-653.8	-5.6	11.2	
	79.8	-266.2	77	-328.2	94.4	-205.3	54	162.8	-83.1	-448	2.3	-11.4	
	64.3	-1.5	41.3	-6	-39.2	-37.9	-13.2	-4.6	10.1	9.3	3.4	-2.8	
	-2.7	-0.9	8	3.4	-4.1	4.3	-16.4	-36.7	27.2	47.8	-0.2	-1.1	
	-24.5	2.8	-67	34.1	-47.3	51.8	-41.6	-158.6	54.4	151.2	-2.1	1.8	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	339.2	-3423.1	411	-3942.7	-974.1	-309.1						
RMS	299.8	2800.3	270.6	2770	2320.5	1554.9						
1/2 P-P	649.6	4390.9	580.9	4356.9	3677.2	2799.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	192.6	129.2	-1902.5	-3440	-121.6	118.7	-1948.5	2838	-1597.4	1670.5	-1194.4	
2nd	74.2	18.4	-267.4	-231.8	-72.4	-45.6	291.2	171.8	240.2	169.2	97.3	
3rd	-139	-283.4	21.8	-156.8	-282.3	106.6	-5.9	-114.7	16.8	65.6	127.5	
4th	39.8	47.7	-55.7	35.8	43.6	54	9.5	84.5	-83.9	398.4	-510.7	
5th	114	-3.6	-126.9	79.6	-0.1	108.9	-170.6	-32	-74.7	76.3	322.1	
6th	-34.5	-1.9	19.8	12.3	27.7	4.3	-12.4	1	-4.2	10.2	31.4	
7th	0.6	10.7	-28.1	-21.1	6.5	3.8	9.9	-10	1.6	-13.1	-22.2	
8th	19.2	-33.4	-58.8	-153.5	14.6	-19.5	-161.8	-42.7	-147.1	-8.8	-93.4	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1515.8	-466.6	545.7	-5359.9	-544.8	-83.3						
RMS	1270.3	123.1	240.9	2655.7	114.9	10.2						
1/2 P-P	2559.1	216.2	457.7	4197.6	201	22.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1014.9	-968.5	-108.1	125.1	-89.8	0.6	3249.4	-101.4	-118.1	8.5	-1.5	
2nd	168.1	-2.2	-33.3	18.6	39.1	23.7	-199	35.7	-4.9	-9.6	1.6	
3rd	188.8	181.1	26.6	17.6	132.6	260.3	162.4	19.1	-14.2	-1.3	-3.7	
4th	506.7	-755.9	-11.7	14.4	45.1	49.9	-5	-5	11.9	-1.3	0.7	
5th	173.4	517.4	-0.8	6.9	-110.8	20.8	-52.8	-8	1.1	-0.8	-2	
6th	14.4	32.8	2.6	-0.7	-31.8	-1.1	19.5	-2.7	1	0	-0.4	
7th	-7.3	-21.3	1.1	-0.3	-1.4	-9.4	-9.4	-1.8	-1.1	-1.7	-0.3	
8th	30.2	57.3	-3.1	2.8	16.8	-30.5	-163.1	-4.4	3.2	0.5	-0.2	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1845.2	1482.3			896.4		763.7		638		288.6	
RMS	379.2	221.3			96.3		196.6		248.2		434	
1/2 P-P	700.5	411.5			223		433.8		527.9		868.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-307	80.6	-201.6	24.6	-43.9	-95.2	-7	-190.7	3.8	-235.1	-74.6	-428.2
2nd	-169.5	-4.2	-98.8	-1.3	-48.1	7.8	-36.1	16.3	-39.8	20.2	-143	11.2
3rd	340.4	-144.6	191.5	-78.1	12.2	-23.6	-120.3	20.1	-175.2	44.6	-387.8	117.9
4th	55.5	55.5	31.9	23.1	9.4	-17.8	-18.9	-48	-33.1	-55.4	-48.2	-31.5
5th	22.5	-108.9	7.8	-42.3	-20.1	40	-47.2	118.3	-53.1	144.3	23	1.5
6th	35.2	4.5	14	0.9	-12	-6.6	-38.8	-10.1	-47.1	-9.5	17.7	16.9
7th	-7.4	-3.1	-2	-3.3	4.8	-2.1	7.7	1.3	5.4	3.9	-8.3	-5.5
8th	10.2	-24.2	-3.3	-11.1	-22.4	9.4	-37.9	26.8	-33.4	29.9	50.1	-22
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-153	-607.9			-873.7		-4228.7		-2461		-478.1	
RMS	547.3	597.1			480.6		3929.5		1485		114.4	
1/2 P-P	1120	1271.7			1014		6058.5		2944.8		208.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-207.6	-426.5	-65.2	-293.5	11.3	-69.4	-4466.1	3235	-744.9	1100.9	123.3	-89.8
2nd	-364.3	-12	-597.4	-84.2	-493.9	-45.7	506.7	247.2	304.8	-77.7	-32	22.4
3rd	-337	178.2	-246.9	207.2	-289.2	78.9	235.2	106.8	-421.5	-252.3	-20.9	-8
4th	36.3	60.9	107.7	88.4	194.2	104.9	-46.3	38.8	824.2	-1160.1	8.7	22.2
5th	118.7	-263.7	122.4	-332.9	134	-193	73.3	139.2	-102.9	-443.2	9.4	-12.1
6th	69.7	4.7	42.4	1.7	-56.7	-43.8	-10.4	9.9	7.4	24.8	1.9	-3.9
7th	-3.6	0.7	1.9	-6.2	-12	-12.2	17.6	-18.8	2.1	35.1	-2.1	-1.4
8th	-26.2	5.8	-52.6	41.2	-22.7	60.1	-98.4	-163.5	111.5	156	-2.9	3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1723.8		-2093.1		1830.6		-2585.5		240.3		164.3	
RMS	360.7		4245.5		341.3		4147.1		3502.3		2273.9	
1/2 P-P	726		6473.7		702		6465		5462.2		4047.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	27.4	99.3	-3023.9	-5141.2	-8	-50.9	4846.2	-3226.5	4124.5	-2676.7	2359.7	-1887.1
2nd	195.3	-19.9	-487.2	-286.8	-202.4	-1.7	496.6	326.9	408.3	269	322.7	112.1
3rd	-192	-389.5	72.3	-256.1	-378.7	151.5	-218.5	-78.7	-153.7	-35.8	140.9	164.2
4th	60.6	54	-57.3	47.3	58.3	62	18.1	-17.1	121.6	-150.9	536.9	-781.9
5th	107.3	1.7	-116.5	83	-24	113.9	-109.6	-128	-58	-41.1	80.1	340.1
6th	-38.2	-2	16.5	2	30.8	6	7.5	9.5	5.1	15.5	-3	43.6
7th	2.5	9	-12.4	-8.4	7	4.7	18.5	19.4	10.6	11.6	-18.1	-20.4
8th	17.8	-43.3	-102.4	-154.5	12.8	-16.4	-111.5	-176.4	-86.5	-163.9	-25.9	-100.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1333.3		-474.5		1909.9		-4063.2		-558.7		-64.6	
RMS	1801.3		124.6		330.6		4081.6		121.9		11.7	
1/2 P-P	3455.4		217.4		676.6		6280.8		208.4		24.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1391.3	-1487.3	-126.8	110.3	65.8	8.6	2959	4912.9	-90.4	-140.7	-0.9	11.7
2nd	289.2	-0.6	-21.5	28.8	166.2	-19.8	-454.4	-282.6	25.9	-13.3	-9.1	3.6
3rd	333	254.3	26.4	10.5	183.5	359.9	-81.9	233.7	10.1	-8.9	-0.3	-2.4
4th	667.5	-1142.2	-3.1	23.4	62.2	54.4	17.3	-8.4	4.6	22.6	0.9	2.6
5th	194.4	513.7	-7.2	6.4	-114.6	-2.4	148.4	-65.1	-6.9	-5.1	-0.2	-2.1
6th	-2.8	34.7	0.2	-2.5	-35.9	-5.2	-5	2.3	-2	2.6	-0.1	-0.9
7th	-28.7	-33.2	2.2	0.9	-0.4	-8.9	52.1	10	-1.2	-0.8	-2.7	-0.4
8th	51	59	-3.2	3.7	16.8	-27.2	-80.1	-156.2	-5.5	3.8	0.6	-1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	3339.3		2408		1271.2		933.7		771.1		445.4	
RMS	626.4		373.2		137.3		240.6		304.2		519.2	
1/2 P-P	1098.8		655		306		516.9		633.2		1009.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-570.5	126.7	-368.6	58.7	-103.3	-95.6	-34.1	-208.4	-16.4	-260.5	-131.4	-472.6
2nd	-385	14.8	-226.9	5.9	-88	13.5	-28.9	18.3	-19.4	21.5	-108.6	-7.3
3rd	453.7	-227.5	255.4	-124.1	16.7	-32.4	-157.5	38.2	-228.4	72.7	-506.5	157.2
4th	67.2	66.3	39.3	23.6	16.2	-28.8	-17	-68.8	-33.6	-76.9	-63	-40.1
5th	79.1	-135	30	-53.4	-43.7	43.4	-110.6	133.8	-127.3	165.3	32.5	-1.4
6th	36.1	7.8	13.7	1.7	-12.8	-11.3	-42.2	-16.8	-51.8	-15.7	24.1	26.1
7th	-15.2	-0.6	-4.1	-4.9	10.6	-8.6	18.8	-8.4	16.3	-6.7	-20.1	2.3
8th	1.7	-39.5	-10	-16.5	-27.8	18.5	-39.4	48.1	-30.4	51	56.4	-46.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-68.4		-619.9		-1000		-2572.8		-2334.5		-440.3	
RMS	669		738.5		624.7		5835.2		2232.5		140.8	
1/2 P-P	1387.6		1606.5		1306.6		8786.5		4205		251.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-325.2	-478.2	-142.5	-336.9	-9.6	-98.1	-6195.9	5334.3	-930.1	1650.5	140	-100.9
2nd	-399	-44.9	-728.5	-132.6	-649.3	-73.7	935.2	225.4	455.8	-97.4	14.7	66.4
3rd	-428	200.9	-300.3	221.4	-347.4	58.4	390.9	155.7	-638.5	-404.3	-19.1	18.2
4th	19	78	104.9	116.8	230	129.5	-97.8	110.7	1227.5	-1933	37.7	46.4
5th	259.3	-302.9	282.1	-390.1	262	-221.7	62.1	127.6	-47	-439.3	23.2	-15.3
6th	74.7	6.8	36.5	11.1	-88.9	-49	-6.9	-29.7	-0.3	79	0.4	-8.1
7th	-8.7	0.9	-0.1	-22.8	-14.3	-30.7	33.8	10.5	9.5	17.3	-4.4	-1.6
8th	-37.5	11.4	-51.8	67.1	-1.1	93.7	-176.9	-239.4	200.1	231.2	-3.8	5.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3198.3		-581		3352.6		-1279.4		1419.7		579.2	
RMS	537.4		5943.3		549.3		5678.4		4813.1		3130.3	
1/2 P-P	1013.1		9009.3		974		8608.5		7390.2		5550.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-82.4	-142.3	-4666.1	-6909.2	269.8	-136.9	5899.8	-5344.7	5063.9	-4459.2	2811	-3003.7
2nd	381.8	-26.6	-844.3	-316.2	-402.5	9.6	871.6	282.8	711.6	244.1	524.4	87.4
3rd	-276.4	-538.5	133.3	-396.5	-501.4	241.4	-347.7	-62.9	-243.4	6	217.7	310
4th	69.5	60.1	-44.3	124.7	78.5	74.2	50	1	180	-222.1	693.3	-1248.4
5th	142.9	15.3	-109.6	94.6	-62.8	141.8	-119.2	-148.1	-68.5	-48.5	65.9	380.4
6th	-44.5	-4.1	5.1	3.5	41.6	11.5	-15.3	-17	-14.2	1.2	-10.1	77
7th	4.1	11.7	-13.5	-0.5	15.7	1.9	-9	30.7	-11.7	18	-23.7	-31.2
8th	11.3	-74.8	-205.7	-221.9	11.8	-37.2	-193	-238.3	-154.9	-230.1	-65.6	-147.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1175.9		-446.6		3366.2		-2503.5		-543.8		-30.5	
RMS	2533.6		145.7		519.5		5909.6		141.4		27	
1/2 P-P	4826.3		253		963.9		9052.7		238.4		52	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1590	-2286	-144.3	109.1	126.8	194.9	4745.9	6797.9	-86.6	-161.8	-21.8	27.4
2nd	439.2	-27.9	22.8	68.9	366.2	-30.2	-844	-344.5	-12	-52.2	-2.7	10.1
3rd	531.5	447.1	34.9	-18.3	264.7	489.8	-178	345.8	-14.6	-14.2	1.9	0.5
4th	817.6	-1819.6	19.2	45	80.2	67.2	32.2	27.3	22.4	44.2	5.3	7
5th	184.2	581.2	-15.9	9.7	-150.6	-40.2	136.3	-48.9	-12.5	-14.5	1	-2.1
6th	7.6	75.9	0.2	-5.3	-45.6	-13.1	3	23.5	-0.8	3.9	-0.4	-1.8
7th	-26	-52.9	5	3.1	-3.1	-11.1	19.8	48.7	0.9	-3.4	-3.5	-1.3
8th	88.8	76.4	-3.1	7.6	8.4	-49	-170.8	-241.2	-6.7	7.7	0.8	-0.7

RUN/POINT 18/15	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3532.4	-1843.5	-454.8	200	211.3	-129.7						
RMS	233.9	152.7	98.5	110.9	127.8	239.2						
1/2 P-P	412.4	258.7	173.7	207.3	236.5	465.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	20.7	-243.6	-169.8	34.8	-126.6	54.1	-135.4	149.2	-151.8	149.2	-235.5	66.9
2nd	179.8	-112	-61.6	31.8	-14.6	-21.4	14.6	-44.3	24.3	-162.8	66.9	54.9
3rd	-46.6	-33.7	-20.7	0.3	-4.6	14.6	6.5	20.4	12.4	18.9	54.9	7
4th	6.8	-5.6	-3.4	2.1	-0.7	-3.3	1.3	-6.6	3.1	-11.1	7	-2.3
5th	-5.5	2.7	2.2	6	3.2	10.5	4.3	10	3.8	-2.5	1.2	-3
6th	3.3	-3.4	-2.1	1.7	0.3	-1.5	2.9	-3.3	3.4	1.7	-4.7	-19.2
7th	-4.3	-2	-1.5	3.7	0.2	5.3	2.1	2.9	2.8	-4.7		
8th	9	-12.8	-1.7	-10.7	12.9	-21.3	22.8	-19.3	20.6	28.9		
RUN/POINT 18/15	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-268.2	-347.7	-177.7	-7995.5	-2777.3	-377.8						
RMS	243.8	198.8	91.2	293.5	220.8	106.8						
1/2 P-P	453.6	387.2	217.5	653.8	573.3	165.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	159.2	-220	-163.8	30.8	-37.8	-281.4	213.9	-162.7	178.6	66.9	-133	16.3
2nd	-173.4	94.7	86.5	-42.8	36.3	-94.5	119.9	33.7	-15.7	-18.2	3.7	2.9
3rd	-10	65.4	69.4	-29.2	61.4	30.4	-8	-36.1	31.9	-1.8	-0.6	-1.3
4th	-3.9	-2.3	-8.1	-12.8	-4.8	2.6	7.1	-32.9	-71.1	-1.6	0.2	1.4
5th	-16.2	-14.3	-15.5	-2.9	-15.3	27.7	-12.9	-55.9	13.4	-0.9	-0.4	-0.4
6th	10.6	-7.9	-7.7	0.7	-1.6	6.6	-1.8	-3.4	4.6	1.4	-0.6	-0.6
7th	1.6	-0.5	0.7	3.6	1	-24.2	-0.1	21.6	2.9	0.2		
8th	-6.5	7.3	32.2	-31.6	34.4	11.7	-33.4	-9	30.9	-0.6		

RUN/POINT 18/15	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3696.6	323	-5687.5	-3679.2	-6272.2	-3079.2	-1038.8					
RMS	359.2	111.6	568.1	389.3	650.3	531.7	407.4					
1/2 P-P	614.3	34.4	967.7	631.1	1112.8	917.3	759.8					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	335.1	323	-306.5	-715	287.6	-289.8	694.6	-258.2				
2nd	-158.7	111.6	62.9	-111.1	-107.7	126.3	-83.9	33.3				
3rd	-33.1	34.4	-17.6	-11.5	29.7	19.9	-6.6	-1.4				
4th	5.4	-5.4	3.5	17.6	-3.4	8.6	5.7	-63.5				
5th	3.2	-0.5	1.6	23	-2.7	20.4	-13.1	-5.1				
6th	-3.9	3.6	10.1	-5.8	0.8	2.6	4.9	0.4				
7th	-2.2	3.5	-32.1	1.2	1.9	-29.4	-25.3	-10				
8th	9.5	-20.3	1.7	-30.6	-14.6	3.4	3.6	-23.7				
RUN/POINT 18/15	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1758.1	-234.7	-376.6	-74	-3429.6	-177.1	-7583.3	-422.1	-111.5			
RMS	327.1	-0.1	125.4	-16.5	273.8	120.7	354.1	109	15.7			
1/2 P-P	707.1	-17.9	192	0.6	496.9	-50.5	688.5	170.9	27.3			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	351.5	-234.7	-74	-16.5	159.3	-177.1	183	-73.4	15.4	-15		
2nd	3.8	-0.1	-16.5	0.6	16.4	120.7	105.5	-14	-3	1.2		
3rd	50.3	-17.9	0.6	0.6	-3.3	-50.5	19.1	-3.3	1.2	1.8		
4th	-74	-91.9	0.6	0.6	6.1	-4.5	16.8	3.4	-0.8	0.5		
5th	44.5	-25	1.1	1.1	0.4	6.5	0.9	0.9	-0.7	-0.8		
6th	4.5	-4.4	0.4	0.4	0.2	0.5	15.4	0.6	-0.3	-0.4		
7th	17.8	-8.9	-0.2	-0.2	-0.3	-2.2	-18.2	0.8	-0.5	0.1		
8th	0	14.7	-0.9	-0.9	1.3	-24	9.3	2.6	-0.2	-0.3		

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-2158.8	-993.1	-109.3	344.2	320.4	-35.3
RMS	148.4	96.9	77.6	113.1	135	242.9
1/2 P-P	287.5	181	142.7	226.2	257.9	448.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-148.2	-94.6	-83.2	-104.4	28.2	-146.3	41.2	-172.6
2nd	50.4	-85	-46.8	-10	-22.8	13.6	-38.8	22.1
3rd	23.5	-24.1	-14.6	-6.7	-7.2	-0.5	-13.4	3.6
4th	16.5	10.6	5.4	-2.5	-7.8	-8.5	-13.9	-9.5
5th	-4	-21.4	-1	10	2.3	26.4	0.9	30.7
6th	5.1	-5.4	4.3	0.9	-2.7	4.8	-4.1	5
7th	-1.5	-1.3	1.9	0	6.8	1.1	4.2	1.7
8th	8.2	-6.9	-2	5.3	-14.6	10.5	-14.6	9.2

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	-268.4	-443.8	-380.5	-6866.8	-2636.2	-423.6
RMS	263.3	236.3	131.5	523.2	323.2	106.4
1/2 P-P	506.8	498.2	317.5	940	753.5	167

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	72.2	-279.8	68.4	-207.4	-519.9	480.7	-198.7	294.5
2nd	-189.6	74.8	-196.8	60.7	-116.5	25.1	51.7	-26.8
3rd	-59.5	66.3	-63	75.9	-62.9	57.7	39	-2.5
4th	19.2	16	33.2	18.6	27.4	22.8	-10.1	-147.7
5th	3.5	-62.2	3.8	-75.8	12	47	-42.1	-112.7
6th	15.2	-9.1	19.7	-8.5	10.1	2.3	-11.1	-0.9
7th	2.9	-0.7	8.9	0.5	5.5	-0.8	25.7	3.3
8th	-4.2	1.9	-22.8	16.5	-21.5	19.4	-15	18.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2314.4	-4580.3	-2280.5	-5161.5	-2093.1	-613.8						
RMS	217	890.5	222.6	913.3	759.7	565.9						
1/2 P-P	363.6	1463.2	392.1	1546.7	1283.6	971.3						
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	168.7	233.3	-1072.1	-238.9	176	1125.3	-594.2	942.9	-483.5	632.2	-456.4	457
2nd	73	-18	-115.1	37.7	-70.7	43.3	130.6	34.7	104.2	45.7	39	39
3rd	-46.6	-27.3	-21	-38.6	23.6	-26.8	16	-15	16.2	35.5	21.2	21.2
4th	10.5	14.7	12.3	19	11.8	9.3	3.7	17.7	-16.2	47.6	-88.9	-88.9
5th	-1.1	28.3	31.5	-2.4	23.2	-30.9	-40.9	-17.4	-21.7	14.5	73.3	73.3
6th	5.1	-7.6	-3.7	7.1	-0.8	-5.9	-2.3	-1.3	-0.3	2.1	0.6	0.6
7th	2.6	-2.1	1.9	0.1	2.2	-19.1	10.3	-18.6	4.4	-11.4	-10.4	-10.4
8th	-6.3	15.9	-23	11.9	-1.1	17.6	-24.1	16.3	-17.4	11.7	-18.5	-18.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1567.7	-417.6	0	-6532.6	0	-473.4	-111.8					
RMS	449.3	124	0	627.7	0	107.5	13.6					
1/2 P-P	891.1	192.1	0	1111.8	0	170.6	26.6					
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-400	425.3	152.1	0	0	504.1	702.9	-124	-83.1	13.8	-11.3	13.8
2nd	-8.1	50.3	13.9	0	0	-39.9	-103.3	23.4	-9.8	-5.6	1.3	-5.6
3rd	15.4	52.3	-0.1	0	0	21.6	34.4	4.3	-6.4	0.7	0.4	0.7
4th	-139.2	51.4	3.7	0	0	6.3	4	-5.5	5.5	-1.2	0.3	-1.2
5th	117.7	50.9	1.9	0	0	38.6	-31	-0.7	1.7	-0.8	-1.6	-0.8
6th	0.3	12	-0.3	0	0	8.3	9.9	-1	1.1	-0.2	0	-0.2
7th	-9.9	8.9	0.1	0	0	-21.7	7.1	-1.2	0.9	-0.6	0.1	-0.6
8th	6.2	-5.6	0.7	0	0	18.7	-17.7	-1.2	0.9	0.3	-0.1	0.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-835.5		-171.1		224		484.4		427.6		80.9	
RMS	236.6		155		109.4		138.3		161.4		274.1	
1/2 P-P	467.1		299.6		200.6		289		311.7		544.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-229	-203.5	-140	-150.5	-29.1	-146.2	14.6	-180.1	26.7	-208	21.2	-320.7
2nd	-20.8	-32.4	-8.9	-17.2	-11.3	1	-24.3	14.9	-37.2	19.7	-145.9	30.3
3rd	73.9	-94.2	44	-53.6	3.1	-14.7	-29.3	14.8	-44.1	29.1	-117.3	94.4
4th	18.3	23.6	11	10.9	3.1	-5.8	-7.4	-17	-13.2	-19.7	-15.5	-6.8
5th	15.7	-0.4	5.5	0.7	-7.2	1	-21	3	-27.4	4.2	2.7	2.4
6th	5.5	-0.7	3.9	-0.5	1.9	-0.1	-3.8	1.3	-5.3	1.1	-1.1	2.2
7th	-2.5	4.1	1.7	4.6	9.6	5.9	11.9	6.7	8.2	4.8	-10.1	-10.9
8th	12.3	-16.5	3	-6	-11	8.8	-24.2	20.4	-23.5	20.3	34.3	-13.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-226.5		-504.9		-562		-5672.5		-2520.1		-464.2	
RMS	300.1		291		198.9		1478.2		547.7		105.8	
1/2 P-P	575		613.9		479		2290.1		1158.6		172.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-17.1	-287.8	13.7	-200.9	6.7	-39.8	-1330.3	1580.3	-309.4	567.7	90.4	-113.3
2nd	-242.1	31.8	-290.1	12	-202.7	7.9	220.5	122.8	137	-41.8	-31.9	10.1
3rd	-116.7	131.4	-104.8	141.3	-110.5	87.2	85.8	2.7	-111.6	-24.9	-12.3	-1.6
4th	4.2	18.6	19.9	29.5	37.8	39.1	-4.9	13.6	65	-316.5	-6.6	4.4
5th	62	-18	72.6	-31.2	62.4	-19.8	9.8	43.1	5.2	-103.8	0.8	-3.5
6th	15.9	-6.7	11.8	-9.7	-8.4	-14.4	6.7	-14.6	-7	15.1	0.5	-0.6
7th	4	2.6	20	2.1	19.4	-0.4	-17.2	14.3	20	-11.9	1	0.5
8th	-9.2	1.9	-34.8	30.2	-30.2	36.6	7.5	-88	-2.2	82.7	-0.7	0.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
18/17												
MEAN	-956.4	-3430.5	-895.7	-3986.1	-1035	-175.1						
RMS	233.3	1698.8	218.3	1755.9	1475.7	996.9						
1/2 P-P	360.9	2610.8	349	2711.3	2277.7	1653.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	279.4	59.9	-1825.2	240.7	1887.4	-1579.3	1605.6	-1304.7	977.3	-972.1		
2nd	43.8	24.4	-139.1	-31.6	202	162.3	164.2	134.9	133.1	62.1		
3rd	-104.5	-105.8	-69.3	100.4	-68.3	3.2	-47.2	15.4	46	47.2		
4th	13.3	24.5	21.8	26.8	14.9	-2.9	18.8	-40.2	29.2	-212.1		
5th	11.1	21.2	29.4	9.4	-11.5	-50.2	-10.5	-28.9	-18	63.9		
6th	-5.9	2.6	0.6	0.9	2.4	-5.8	1.7	-2.2	-5.8	3.3		
7th	-0.3	6.6	38.4	-1.7	14.3	41.4	7.7	29.5	-8.9	-3		
8th	17.1	-14.8	-92	-4.6	6.5	-96.1	9.3	-84.6	9.8	-54.3		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
18/17												
MEAN	-1374	-457.9	0	-5406.7	-522.4	-108						
RMS	761.7	121.8	0	1524.3	107.4	13.8						
1/2 P-P	1430	192.9	0	2345.6	178.4	28.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	627.1	-781.7	-96.3	138.5	0	1430.7	1583	-108.9	13.7	-10.4		
2nd	117.5	-13.4	-28.2	12	0	-204.5	-122.9	-6.3	-7.7	1		
3rd	102.6	48.1	13.5	2	0	1.6	80	-11	0.3	-1.3		
4th	19.5	-311.7	-5.4	4.3	0	13.8	-8.6	7.2	-1.4	0.2		
5th	-13	122.4	-0.2	4	0	32	-26	0.2	-1.2	-2.1		
6th	2.4	5.9	1.3	0.1	0	6	5.6	0.6	0.1	0.4		
7th	-9.4	-28.5	-0.8	-1.3	0	0.1	17	0.3	-0.9	0.5		
8th	-3.7	30.5	-1.6	0.6	0	9.4	-82.5	1.3	0.7	-0.3		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-235.4	-2726.2	-181.9	-3281.1	-411.1	80.4						
RMS	234.4	2159.9	214.5	2193.8	1847.2	1247.4						
1/2 P-P	416.5	3327.5	375.1	3362.2	2833.4	2149.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	249.5	-43.4	-2104.8	-2174.8	-12.5	233.8	2172.1	-2176.9	1856.6	-1806.4	1108.2	-1301.6
2nd	89.2	23.5	-311.8	-167.8	-76.4	-22.2	265.7	220.5	214.7	185.9	169.4	84.5
3rd	-94.1	-157.7	15.8	-91.6	-145.7	81.2	-101.3	0.9	-73.8	15.2	33.8	69.7
4th	12.9	25.3	-20.2	28.9	17.7	28.8	21	3.8	40	-57	119.9	-324.3
5th	40.8	1	-80.1	52	-1.5	31.3	-44.7	-91.8	-25	-47.8	29.8	127.8
6th	-10.3	-1.4	3.4	9.7	8.8	0.5	3.5	-8.3	4.7	-6.5	2.9	5.1
7th	0	4.7	15.4	20.7	1	-0.4	31.9	30.2	22.4	20.6	-4.8	-2.7
8th	2.5	-14.7	-44.3	-69.3	5.1	-9.4	-44.4	-78.6	-33.2	-70.6	-11.6	-44.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1263.9	-473	0	-4733.1	0	-543.6						
RMS	967.4	123.3	0	2025.6	0	112.9						
1/2 P-P	1784.9	197.5	0	3101.3	0	189.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	684.9	-1022.4	5	132.7	0	2122.2	1886.7	-104.7	-114.3	10.3	-7.2	
2nd	143.5	98	-28.1	12.5	0	-277.4	-141.1	32.4	-2.2	-8.4	0.7	
3rd	110.4	98	12.2	7.8	0	-16.5	102.7	15.1	-7.7	0.1	-3.1	
4th	137.1	-471.5	-5.3	6.5	0	16.1	-7.5	-4.9	8.9	-1.5	0.7	
5th	70.3	226.1	0.4	3	0	77.9	-45.1	-3.5	-0.2	-1	-2.4	
6th	2.8	13.1	0.8	-0.4	0	-0.8	-2.1	-2.3	1.6	0.2	0.2	
7th	-21.7	-18.3	0.6	-1.3	0	28.8	6.5	-0.8	0.1	-1.1	0.7	
8th	14.8	29.1	-1	0.8	0	-35.1	-76.1	-1.4	1.5	0.4	-0.8	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	567.5		701.1		580.2		639.1		551.4		219.6	
RMS	236.8		150.1		100.2		147.5		181		329.4	
1/2 P-P	441.7		287.6		185.5		292.4		346		637	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-254.5	-108.9	-91.1	-33.5	-131.1	6.9	-185.4	17.9	-222.1	-21.6	-369.7	
2nd	-22.5	-2.2	1.6	-15.6	5.9	-31.6	11.3	-45.4	12.2	-170.9	-1.2	
3rd	152.6	-89.1	-49.2	3.2	-15.6	-58	11.3	-87.4	25.2	-206.6	82.6	
4th	24.7	28.8	12.4	3.2	-8.7	-8.8	-24.6	-18.1	-28	-22	-15.3	
5th	3.1	-32.2	0.1	-6.8	13.3	-15.2	37.6	-17.9	45.8	9.5	2.4	
6th	14.2	5.6	6.9	-2.2	-2.7	-14.2	-5.8	-17.3	-7.5	5.5	8.1	
7th	-1.6	3.1	1.7	6.9	8.1	7.4	8.9	5.4	7.5	-6	-11.9	
8th	2.5	-12.3	-1.2	-6.9	7.1	-13.7	16.7	-11.3	16	19.2	-14.4	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-161.2		-532.3		-721.1		-4187.4		-2396.9		-491.2	
RMS	383.9		392.3		282.8		2480.1		894.3		107.7	
1/2 P-P	769.4		815		623.4		3764.2		1755.9		185.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-94.6	-338.3	-32.3	-229.3	-3.6	-46.2	-2417.8	2506.2	-454.5	858.3	106.9	-98.2
2nd	-323.7	-21.8	-430	-52.9	-319.8	-22.8	278	176.4	200.7	-39.1	-41.1	5.6
3rd	-188.3	136.1	-153.7	145.5	-167.3	68.3	133.3	48.1	-216	-99.6	-12.9	-8.5
4th	11.4	32.4	42.8	52.1	78.6	61.6	-18.1	30.4	314	-595	-6.8	6.2
5th	41.4	-85.5	43.9	-106.1	49.2	-53.4	37.1	96.8	-46.5	-242.7	3.1	-5.4
6th	28	3.9	14.1	-2.3	-23.9	-22.3	-8.5	-5.8	12.1	14.9	1.1	-1.4
7th	1.1	5.2	9.9	9.7	5.1	4.6	1.6	-27.4	6.7	31	0	0.1
8th	-8.5	2.8	-19.5	20.7	-9.9	29	-24	-105.5	27	102.6	-0.3	1.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
18/19												
MEAN	473.2		-1980.4		544.8		-2533.4		259.7		362.6	
RMS	218.3		2801.2		191.4		2724.6		2303.7		1522.1	
1/2 P-P	408.8		4293.5		370.1		4196.4		3551.8		2619.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	180.3	59.1	-2429.4	-3098.7	-70.5	136.3	2956.7	-2429.9	2525.2	1481.1	-1457.2	
2nd	60.7	-10.1	-297.4	-193.2	-54.5	-4.3	262.2	252.2	216.8	186.9	89.6	
3rd	-106.4	-199.6	23.7	-129.8	-184.6	92.2	-121.6	-38.4	-82.9	69.8	66.6	
4th	17.4	28.8	-29.5	27.3	22.6	32	22.6	0.1	54.6	-79	-428.6	
5th	40.9	9.3	-82.6	53.8	-10.3	35.5	-49.2	-92	-24.3	26.8	154.2	
6th	-12.4	-6.8	2.5	12.6	11.7	6	16	7.1	15.3	-2.7	22	
7th	2.7	7.2	8.9	5.9	2.6	-3.7	46.9	23.9	35.4	-3.1	-6.7	
8th	6.5	-19.9	-37.9	-106.8	6.4	-14.1	-45.2	-119.1	-31.4	-106.6	-11	-66.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
18/19												
MEAN	-1144.6		-485.2		0		-4006		-558.7		-95.5	
RMS	1171.2		120.7		0		2639.4		114.6		10.2	
1/2 P-P	2176.6		202.2		0		4055.9		192.9		21	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	899.5	-1154.4	-112	121.8	0	0	2339.4	2880.6	-97.6	-122.3	9.9	-1.6
2nd	171.5	7.2	-34.5	10.9	0	0	-260.2	-169.6	36.3	2.1	-8.8	1
3rd	172.6	107.5	12.9	8.2	0	0	-32.7	138.9	16.7	-5.7	0.3	-3.1
4th	225.3	-622.4	-5.9	10.2	0	0	19.9	-23.2	-3.5	9	-1.2	0.2
5th	68.6	262.8	-2.1	4.5	0	0	81.4	-45.5	-3.8	-1	-1	-2.3
6th	-6.2	21.1	0.6	-0.3	0	0	-4.3	5.1	-1	0.9	0	-0.4
7th	-33	-18.3	0.3	-0.6	0	0	30.7	-14.9	-1.4	-0.2	-1.1	0.6
8th	15.8	45.8	-1	1.7	0	0	-20.4	-111.1	-2.1	2.1	0.4	-1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	1946.4	1557.7	928	794.3	670	350.2				
RMS	328.7	206.3	137.5	173.9	209.5	373.5				
1/2 P-P	614.6	386.5	247.2	331.5	398.8	699				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-241.2	-262	-157.4	-177.4	-23.8	-182.1	6.7	-220.1	15.7	-257.1
2nd	-160.9	41.6	-93.8	25.1	-44.7	15.5	-32.3	12.2	-38.4	13.6
3rd	214.5	-106.4	122	-59.6	7.7	-20.3	-77.5	12.1	-113.7	28.4
4th	28.4	30.3	17.1	10.5	7	-14.2	-8	-30.2	-17.4	-34.3
5th	4.7	-37.8	0.2	-14.8	-8.3	14	-18.9	40.3	-22.5	51
6th	14.2	4.2	6.1	1.9	-3.9	-3.3	-16.3	-5	-20.1	-6.4
7th	0.8	5.8	2.1	5.2	5.5	5.2	5	5.5	1	3.2
8th	0	-10.5	-1.3	-6.4	-3.8	2.3	-8	8.7	-7.2	9.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	-108.1	-572.6	-872	-2523.6	-2220.1	-496.2				
RMS	438.2	462.5	354.1	4600.4	1437.2	118				
1/2 P-P	904.7	970.6	706.9	6901.9	2726.7	204.4				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	-162.4	-383.5	-63.4	-258.3	-7.8	-60.4	-4287.3	4838.2	-733	1447
2nd	-353.4	-56.4	-528.4	-93	-424.9	-34.9	629.7	170.8	293.1	-58.9
3rd	-230.3	125.6	-175	121.5	-200.3	29.2	224.2	109.3	-272.1	-147.9
4th	4.2	28.8	36.9	52.5	89.3	56.6	-26.2	63.6	556.2	-940.7
5th	50.5	-92.1	52.9	-117.7	54.2	-52.8	35.9	96.8	-55.9	7.6
6th	26.6	1.9	11.7	-1.5	-32.7	-23.9	2.4	1	4.9	-267.8
7th	2.9	7.3	5.3	8.7	1.1	0.7	7.1	-15.1	20.6	16.9
8th	-7.9	-0.2	-14.3	12.2	-3	23.3	-48.4	-95.8	49.4	94.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1860	-397.1	1979.2	-1073.5	1558.8	888.7						
RMS	348	4746.9	287.8	4580.1	3880.3	2475						
1/2 P-P	665.7	7107.7	552.7	6846.1	5827.1	4053.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	322.3	84	-485.2	232.2	4487.2	-4613.9	3856	-3857.2	2205.2	-2602.8		
2nd	194.3	-50.4	-231.9	22.6	616.4	231.9	505.2	192.8	354.5	76.5		
3rd	-126.1	-263.9	-203.8	111.3	-197.9	-88.2	-143	-49.3	68.2	91.8		
4th	24.7	35	89.5	36	41.5	-6.9	95.4	-107.3	302.9	-570.5		
5th	46.3	9.9	48.6	42.5	-46.2	-94.5	-23.4	-44.7	30	181.2		
6th	-16.1	-3.8	5.8	4.5	-0.6	-9.4	-0.2	0.4	0.6	23.7		
7th	7.2	4.3	17.7	-5.4	37	42.6	28	34.1	-7.4	-7.4		
8th	4.1	-15.9	-88.2	-7.8	-54.4	-108.9	-42.5	-99.9	-17.7	-59.9		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-906.5	-494	0	-2454.4	-572	-74.9						
RMS	1819.5	128	0	4632.4	127.6	9.6						
1/2 P-P	3224.1	206.1	0	6925.4	202.6	22.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1296	-1965.8	114.9	0	4415.8	4787.8	-95.3	-149.4	5	7.2		
2nd	288.7	-16.5	24	0	-588.1	-248	23.9	-11.2	-7.2	4.2		
3rd	211.2	157.9	4.7	0	-115.1	190.9	9.1	1.9	1.2	-3.5		
4th	345.2	-828.4	2.3	0	36.3	-9.1	6.3	16.1	0.6	2.2		
5th	86.7	295.6	-5.1	0	64.8	-43.8	-2.9	-4.6	-1.2	-1.1		
6th	2.7	24.6	-0.3	0	-8.9	6.9	-0.3	1.9	0.1	-0.4		
7th	-41.2	-30.4	0.7	0	38.5	8.4	-1	-0.8	-1.3	1		
8th	18.8	35.8	-0.9	0	-38.6	-90.5	-1.9	2.1	0.2	-1.1		

RUN/POINT 18/21	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3564.5	2563.3	1336.7	981.4	817.7	519.6						
RMS	469.3	289.9	120.8	171.4	215.9	411.7						
1/2 P-P	736.4	448.9	249.9	331.2	409.9	781.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-524.3	15.9	-336.8	-0.2	-87.7	-118.3	-19.1	-205.2	-1.5	-254.4	-92.7	-449.2
	-256.9	46.1	-152.6	25.2	-66.3	19.3	-37.8	13.2	-37.2	13.9	-141	-30.6
	273	-122.9	154.6	-69.4	13.7	-25.8	-91.8	8.8	-135.9	27.6	-318.1	80.4
	27.8	40.6	17.2	13.2	7.6	-20.5	-7.1	-45.5	-16.7	-51.1	-30.3	-25
	15.7	-33.5	5	-13.4	-11.3	11.4	-28.7	34.6	-33.4	42.5	10.1	1.4
	17.1	5.1	8.5	1.1	-3.3	-5	-16.2	-8.1	-20.9	-9.2	5.5	8.2
	-2.3	5.4	-1.6	4.7	0.6	5.1	-0.7	5.1	-2.2	3.7	1.9	-6.9
	0.9	-13.3	-0.9	-5	-3.5	8.5	-8.2	19.5	-6.7	17.9	14.9	-19
RUN/POINT 18/21	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-23.5	-586.5	-1008.2	-637.3	-2052.7	-457.5						
RMS	503.5	553.7	442.7	6111.4	1886.8	137.2						
1/2 P-P	1043.1	1116.9	894.3	9034.8	3544.5	227.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-234.6	-411.1	-106	-282.5	-15.2	-93	-5741.3	6395.3	-922.5	1900.8	153.1	-100.5
	-405.3	-111.7	-642.6	-164.6	-535.1	-73.3	822.9	106	384.2	-78.9	-0.2	42.2
	-272.8	125	-196.9	107.8	-229.8	-10.1	276.4	100.9	-353.2	-272.8	-5.6	10
	1.6	48.2	43.2	95.7	117.4	93.6	-5.5	91.1	556.1	-1367.4	26	34.3
	70.2	-75.6	75.7	-104.1	76	-28.1	85	79.8	-110.6	-251.6	14.8	-5.3
	31.5	10.8	14.2	13.1	-38	-19.5	3.8	10.9	-4.2	12.6	-0.5	-2.9
	-1.2	5.9	-5.3	4.6	-8.7	-4.2	-7.9	5	37.1	3.8	-1.7	0.9
	-6.6	5.1	-10.3	26.2	1.6	39	-45.7	-80.9	54.9	82.8	-0.4	1.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3464.1	1455.6	3598.2	500.1	2968.4	1432.1						
RMS	357	6152.2	366.5	5964.3	5073.6	3215.6						
1/2 P-P	668.1	9158.4	636.1	8773.3	7538.4	5326.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-14.1	-5764.2	-6452.1	244	-54.4	5650.1	-6199.4	4879.8	-5207.7	2735.7	-3460.4	
2nd	283.1	-799.2	-202.6	-290.4	35	805.2	150.6	659.7	133.7	462.7	36.8	
3rd	-151.4	128.3	-286.4	-307.2	130.7	-232.7	-46.9	-163.8	4.5	120.6	227.9	
4th	30.5	20.6	126.4	27.7	49.4	77	8.4	119.2	-154.5	298.6	-890.7	
5th	54.8	-79.6	69.1	-20.3	43.2	-87.5	-99.3	-54.6	-46	37.9	181.2	
6th	-19.8	3.9	-6.2	15.1	8.5	2.4	-2.8	3	4	1.4	29.8	
7th	5.1	-35.9	24	1.9	-4	-1.7	45.4	-4.7	30.2	-15	-10.1	
8th	1.1	-51.1	-76	-2	-6.6	-53.2	-77.5	-44.5	-71.8	-16.5	-50.5	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-670.9	-464.1	0	-695.5	-555.2							
RMS	2397.9	140.2	0	6130	141.6							
1/2 P-P	4254.6	228.2	0	9209.6	230.8							
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1575.9	-2606.9	-153.4	107.9	0	5717.4	6454.1	-90.7	-171	-17.3	31.4	
2nd	371.8	-46.6	11.4	49.1	0	-788.7	-197.3	-0.5	-35.7	-2.6	6.7	
3rd	319.9	327.2	10.7	-9.2	0	-162.6	255.9	-2.7	2	3.7	-2	
4th	297	-1285.3	20.8	27.8	0	81.4	-1.4	19.4	28.8	3.6	5	
5th	111.8	297.6	-10.1	5.6	0	82.6	-55.2	-3.7	-6.2	-0.5	-1.6	
6th	2.1	30.3	-2.1	-3.4	0	14.3	4.2	2.6	2.8	-0.1	-0.9	
7th	-24.4	-42.4	1.6	-1.3	0	13.7	30	-1.5	-2.2	-1.6	0.8	
8th	20.5	20.4	-0.7	2.8	0	-47.9	-86.9	-1.3	2.4	0.1	-0.8	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3554.3	-1884.5	-1032.8	15.2					56.9		-388	
RMS	597.2	343.4	150.6	178.9					216.2		445.3	
1/2 P-P	1120.4	633.2	357.1	426.5					495.8		913.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-376.6	143.1	-214.8	46.4	53.7	-138.6	65.2	-166.5	97.6	-195.6	316	-339.1
2nd	543.3	-419.6	331.5	-236.1	-34.1	49.4	-42.9	59.8	-87.9	98.6	-259.5	255.8
3rd	-214.2	153.6	-116.2	78.2	61.3	-33.4	73.2	-39.3	95.9	-52.4	202	-28.9
4th	-33	-41	-14.7	-22.8	3.5	21.1	3.8	26.2	1.3	33.2	4.4	29.2
5th	-36.8	38.9	-10	13.9	46.8	-31.7	53.7	-37	56.2	-47	-11.6	3.7
6th	8.6	-5.3	6.5	-2.6	-3.3	7.3	-3.3	8.4	-9.3	10.3	4.1	-4.1
7th	7.4	-0.9	5.3	-1.6	-4.9	-1	-7.4	-1.5	-11.6	2	6.6	4.1
8th	-6.8	-45	-0.1	-8.7	1.1	71.1	2.1	81.6	4.9	77.1	24.2	-87.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-476.8	-447.1	-139.3	-9363.7					-2715.2		-331.7	
RMS	434.7	339.7	227.7	772.8					272.4		144.4	
1/2 P-P	930.8	702.7	628.9	1457.5					657.9		221.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	311.5	-348.3	193	-265.3	46.6	-67.8	353.8	-915.8	-196.6	-68	64.6	-182.4
2nd	-139.7	310.2	-2.7	244.2	92.3	70.3	-362	234.4	49.1	-79.7	-35.7	17.6
3rd	102.7	20.8	55.1	84.4	64.2	103	47.9	-84.5	18.1	39.9	38.1	-9.9
4th	-7.4	-34.2	-43	-72.2	-75.4	-29.7	28.4	-4.7	-144.3	112.8	-3.4	27.4
5th	-118.9	80.3	-108.4	105.9	-74.1	51.1	54.1	-67.1	-132.2	113.3	-7.5	6.9
6th	8.2	-18.2	-8.9	-23.4	11.9	-8.2	-10.8	13.9	12.5	-18.9	-1.4	-4.5
7th	11.4	3.2	-3.8	-9.4	-27.9	2.9	21.3	7	-12.1	-8.5	4	-3.3
8th	-2.6	27	1	112.5	-10.4	108.4	-10.5	-20.4	12.1	14	2.8	2.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
24/18												
MEAN	-3663.1		-6984.3		-3692.2		-7145.6		-3876.7		-1334.7	
RMS	488.3		712.5		503.5		778		644.3		354.6	
1/2 P-P	922.9		1324.7		894.3		1332.8		1116.8		734.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	-21.6	-39	884.3	150.9	-104.3	-2.5	61.5	972.4	54.5	826.8	204.5	401.4
2nd	-481.6	413.6	326.1	-253.6	512.9	-400.1	-366.7	280.1	-275.7	200.9	-97.7	66.8
3rd	178.5	171.8	-83.2	-15.9	199.2	-159.4	-31.1	105.1	-20.3	70.9	-0.8	1.5
4th	-23.3	-24.3	50.5	37.4	-21.2	-26.2	-6.4	14.1	-14	20.1	-39.7	16.1
5th	-22.3	-37	42	34.8	35.3	-44.6	-28.6	71	-13	38	80.3	-79.5
6th	-12.2	3.7	17.7	-8.2	7.3	-3.6	-4.4	-0.6	-4.2	-2.5	19.2	-6.5
7th	0.7	-3.7	27.5	4.7	-8.5	0.6	43.9	-1.5	29.5	-0.6	-22.5	-7.6
8th	-7.8	-73.4	-20.1	-25.8	-1.9	-29.1	-14.5	-28.6	-12.9	-23	1.8	-16.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
24/18												
MEAN	-1761.4		-331.6		-3657.1		-8621.5		-380.4		-42.3	
RMS	290.9		166.1		543		776.1		146.5		10.7	
1/2 P-P	735.8		249.2		1065.5		1402.6		218.5		28.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	258.5	190.2	-72.1	213.1	117	164.4	-955.8	-152.7	-186.5	-73.6	-4.7	-10.8
2nd	-7.2	-12.5	-36.4	21.9	-540	408.7	414.5	-226.5	25.8	-15.1	0	-0.2
3rd	17.8	-24.9	-37	19.9	-172.3	-220.1	96	48.9	7.4	28.3	3.9	-0.7
4th	-53.8	41.4	1.2	28.7	-32.9	-28.5	-3.8	-19.4	3.5	25.9	-2.6	6.3
5th	120.5	-154	5.6	-5.6	49	37.5	-64.7	-47.4	5	6.4	-3.2	0.6
6th	12.9	-5	-3.1	-3.4	-6.3	5.2	7	-8.3	1.8	5	-0.5	-1.1
7th	-29.2	1	-1.6	2.9	1.8	3.5	30.1	4.6	2	4.5	0.7	-0.6
8th	6.5	17.3	1.6	1.5	-6.7	-64.9	-13.4	-17.8	2.5	6.4	0.3	0.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2441.7	-6894.5	-2452.1	-7083.7	-3769.6	-1361.6						
RMS	382	838.5	406.4	1022.6	862.6	551.8						
1/2 P-P	631.2	1419.1	662.5	1774.9	1472	924						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	109.9	95.5	862.3	-698.7	-221.4	100.5	996.8	944.1	838.1	819.1	669.9	372.8
2nd	-393.6	303	284.5	-251.2	405.5	-289	-310.3	265.3	-230.2	194.2	-41.6	52.9
3rd	86.5	98.8	-64.8	-30	125.4	-69.4	-43.3	79.8	-30.6	54.8	-12	9.7
4th	8.8	0.1	25.7	16.1	9.9	1.6	-32.2	8.2	-17.8	9.1	38.7	-3.5
5th	29.4	-14.5	-13.4	8.7	14.6	10.9	-12	-2.2	-5.4	4.6	29.5	36
6th	-14.1	7.1	10.6	-6.6	14.8	-3.8	-9.5	3	-6.5	3.2	27.7	1.7
7th	4.1	6.5	14.3	15.6	0.8	-0.7	31	29.2	17.3	23.4	-23	-4.2
8th	5.7	-60.4	-24	-31.2	12.9	-20.1	-17.4	-35.4	-14.9	-30.8	1.1	-12.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1813.5	-366.7	-2453.2	-8577.2	-425	-41.3						
RMS	421.8	156.1	396.2	896.5	137.7	11.6						
1/2 P-P	831.7	232.2	721	1590	205.9	25.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	550.7	150.8	-80.7	198.2	-18.7	23.1	-950.1	697.8	-170.9	-81.7	10.2	-6
2nd	39.7	-28.7	-40.6	10.9	-438.2	301.6	370.1	-206.3	33.9	-6.8	-1.9	0.4
3rd	7.7	-10.4	-25.6	-4.9	-75.9	-142.1	74.1	58.8	-8.3	15.8	5.7	6.4
4th	57.5	-1.7	-8.8	17.8	4.5	-0.2	-21.1	-24.9	-11.4	13.6	-4.1	3.7
5th	56.8	46.2	2.6	1.2	13.9	20.4	-7.8	-7.8	-2.9	5	0.2	0
6th	28.7	0.7	3.2	-3.8	-7.4	4.5	15.9	-3.8	-5.8	3.3	0.7	-0.7
7th	-19.1	-21.7	-3.6	1.4	1.5	-6.7	26.8	23.4	-0.5	5.5	0.3	0.1
8th	8.8	21.6	-0.2	4.5	5.3	-42.4	-12.5	-26.1	-0.7	6.2	-1.2	0.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-1157.6	-401.7	-801.4	270.4	259.6	-182.1						
RMS	340.9	204.3	146.3	172.5	201.3	384.4						
1/2 P-P	625.2	405.3	292.9	338.1	356.4	710.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-276.4	20.7	-33.2	31.9	-176.3	41.2	-208.4	60.2	-237.1	183.5	-375.2	
2nd	308.3	-236.9	-132.9	-52.8	35.5	-63.2	42.1	-100.8	66.8	-291.1	155.4	
3rd	-15.7	4.9	-2.1	-0.5	-2.8	0	-1.8	-4.1	4.8	-29	77.3	
4th	23.6	7.5	2.1	-18.4	-5.6	-22.9	-5.9	-31.7	-5.5	-24.7	16.1	
5th	-16.5	-14	-6	15.7	18.8	18.5	20.8	18.5	23.4	3.6	9.7	
6th	9.3	-2.5	-2.8	-7.7	1.2	-8	1.8	-14.2	2.3	14.1	10.8	
7th	-1.1	0.2	-1.7	6.4	0	5.4	0.6	2.2	2.8	0.5	3.7	
8th	11.2	12.2	-0.2	-15.7	-23.1	-17.8	-27.4	-19.4	-24.4	15.5	37.4	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-493.8	-652.1	-521.1	-9083.4	-2703.9	-410.6						
RMS	411.1	344.1	229.1	1056.6	458.7	136.1						
1/2 P-P	825.9	723.9	613.7	1824.6	1007.6	217.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	204.5	-348.5	157.3	16.3	-63.8	-1378.6	-448.1	-508.3	83.9	86.9	-161.1	
2nd	-318.2	163.1	-256.7	-97.4	42.5	-170.8	234.5	192.3	-115.4	-43.9	9.3	
3rd	-62.7	153.7	-100	-98.8	155.5	77.6	-56.5	-29.7	-15.4	16.3	18.7	
4th	23.1	25.5	38	3.5	59.2	0.9	0.5	77.2	-210.7	-24.5	3.5	
5th	-43	-53.9	-47.5	-10.9	-57.7	49.9	18.4	-109.4	-76.8	4.1	-4.1	
6th	15.3	-24.1	-15.7	-23.7	-44.1	3.8	2.4	-24.2	5.4	9	-1.5	
7th	-6.2	-14	-0.8	-14.9	-5.4	-20.9	-39.5	13.3	41.2	0.8	2.3	
8th	-20.5	-10.4	-26.4	-5.1	-32.9	8.6	6.6	-13.2	-5	-3.2	1	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1236.6	-6651.5	-1218.6	-6879.9	-3537.5	-1328.1						
RMS	264.9	1276	271.7	1495.1	1266.6	849.5						
1/2 P-P	502.6	2083.1	491.6	2398.5	2014.9	1547.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	97.2	86.1	-1695.7	-155.7	70.9	571.6	512.3	1160.7	150.5			
2nd	-264	216.7	-258.1	268	-202.6	259	192.4	78.2	28.9			
3rd	12	-17.4	-59.5	3.1	4.2	72.5	55.3	6	33.7			
4th	24.8	20.1	21.1	23.9	20	-28.6	-41.7	111	-145.1			
5th	33	-31.8	44.8	21.2	23.6	-12	1.9	55.7	72.5			
6th	-13.8	1.1	11.4	13.9	5.8	-10.8	-2.6	20.9	22.4			
7th	2.5	5.3	-20.5	-0.1	-3.9	-9.9	-12.7	-26.1	-19.9			
8th	25.1	-12.4	9.4	9.6	20.1	5.8	3.6	24.8	-0.2			
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1832.5	-405.3	-1234.8	-8403.2	-473.2	-41.4						
RMS	656.8	155.3	278.9	1305.4	138	13.9						
1/2 P-P	1366.4	234.6	499.7	2166.2	209.2	29.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	855.9	-20.1	-94.9	190.6	16.7	10.5	1696	-162.3	14.5	-5.8		
2nd	143.4	-64.2	-41.4	9.3	-319.9	203.5	-218.6	40.2	-6.1	0.5		
3rd	54	23.8	-17.7	-15.6	-20.6	-24.8	85.8	-13.5	8.3	6		
4th	139.3	-188.6	-18.3	6	10	34	-28.5	-21.9	-0.4	-0.5		
5th	114.1	93.3	-2.4	3	6.8	55.4	-38.6	-4.5	0.3	-1.4		
6th	26.3	32.6	6.4	-0.1	16.8	-2.6	24.1	-8	0.6	0.3		
7th	-1	-9.4	-1.1	-1.5	2.6	-23.2	-25.5	-4.2	2.4	-0.2		
8th	3.1	-10	-3.2	0.4	7.8	-18.2	9	-3.7	2.6	-1.4		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-556		-6560.2		-524.3		-6811.7		-3457.2		-1351.9	
RMS	255.1		1610		246.3		1807.6		1533.5		1048.6	
1/2 P-P	495.5		2526.8		451		2765		2297.4		1927.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	39	5	182.9	-2236.3	-32.1	12	2518.2	201.2	2138.5	199.3	1402.3	-54.3
2nd	-262	207.3	132.8	-290	258.9	-199.1	-131.4	287.7	-81.5	214.9	104.7	28.1
3rd	-13	-85.7	-62.9	-87.6	-71	24.2	-90.5	70.2	-69.6	58.9	15.4	73
4th	40.8	32.6	-46.3	35.6	39.1	34.5	-15.6	-26.7	37.6	-69	261.9	-286.3
5th	50.3	-41.2	-50.1	74.5	27.3	41.9	-82.5	-44.7	-42.5	-15.4	93.7	127.8
6th	-8.4	-2.2	13.1	13.5	5.4	10	-14.1	-16.2	-14.2	-5.8	3.4	35.1
7th	2.7	3.8	12.3	-14	-6.6	-0.3	34	-3.4	21.1	-6.1	-25.2	-17.2
8th	26.3	-9.1	6.8	33.2	9.3	21.6	19.1	30.5	14.9	26.3	32.7	12.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1879.1		-419.9		0		-8349.2		-493.6		-39.5	
RMS	855.4		155.8		0		1625.3		139.7		13.5	
1/2 P-P	1814.4		244.3		0		2481.2		222.8		30.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	996.4	-181.8	-104.5	184.4	0	0	-309.8	2244.6	-156.6	-105.2	13.7	-4
2nd	173.5	-74.2	-45.4	12	0	0	193	-240.3	46.9	-7.2	-5.8	1.6
3rd	90.1	76	-17.8	-15.7	0	0	56.2	107.1	-9.8	5.7	5.3	4.7
4th	338	-410.3	-23	3.1	0	0	-18.2	-35.5	-26.9	-2.1	-5.1	-1.7
5th	191.1	187	-5.5	4.4	0	0	43.9	-67.9	-6.6	-1.1	2.2	-2.3
6th	6.7	45.9	6.9	0.2	0	0	-6.3	22.4	-8.9	0.8	0.8	0.4
7th	-18.8	-16	0.9	-1.8	0	0	26.1	-16.8	-3.8	0.2	-0.9	-0.4
8th	2.4	-16.9	-3.8	0.6	0	0	4.3	39.2	-5	1.9	-0.8	-2.2

MEAN	84.6	368.9	-672.4	412.7	375.9	-69.8
RMS	452.8	274.3	154.7	182.8	219.2	432.9
1/2 P-P	749.4	482	290.8	347.8	398.4	791.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-537.8	93.7	-333.1	12.7	0.8	-185	8.3	-219.3	29.2	-255.2	121.9	-431.9	
2nd	228.9	-197.4	137.4	-110.5	-63	37.6	-75.7	45	-111.5	66.7	-318.3	143.6	
3rd	99.9	-71.8	60.3	-43.5	-37.1	11.4	-43.5	15.8	-63.1	32.7	-172	125.9	
4th	42.9	25	25.6	8.5	-19.4	-24.5	-23.7	-28.7	-36.5	-31.7	-41.7	22.9	
5th	-12.7	-16.3	-1	-7.2	12.9	21.2	15.6	23.3	13.7	27.8	10.1	20.2	
6th	6.7	3.3	5.3	-1.4	-6	-5.5	-6.4	-5.5	-14.5	-4.8	17	14.1	
7th	-1	-2	1.5	-3.2	-1.1	0.4	-2.6	1.2	-6	4.4	6.5	8.5	
8th	21.3	0.5	8.6	-3	-27.9	-11	-32.2	-13.3	-33.7	-9.5	30.1	30.9	

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$

MEAN	-463.4	-740.3	-711.9	-8800.2	-2716.6	-442.9
RMS	484.4	455	311.4	1652.9	839.3	141.8
1/2 P-P	975.8	904.3	894.7	2490.5	1864.4	235

[illegible]

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	21.8		-6352.6	71.5	-6619.9		-3262.4		-1299.6			
RMS	249.9		1913	243.9	2101.5		1790.6		1239.8			
1/2 P-P	493.7		2889.8	437.5	3132.3		2660.3		2309.9			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	20.1	-165.6	-411.9	-2647.4	167.6	-12	-175.9	-451.8	2487.2	51.4	220.1	216.1
2nd	-179.4	179.5	-3.8	-289.4	173.5	-12	-175.9	288.1	51.4	220.1	216.1	10.2
3rd	-71.7	-136.7	-58.8	-114.2	-125.6	80.8	-119.6	58.8	-87.2	55.9	58	77
4th	42.4	38.5	-50.9	47.2	47.1	37.5	11.4	-36.5	54.4	-107.9	233.8	-467.3
5th	33.2	-28.3	-30.1	71.1	15.4	12.7	-77.9	-7.8	-38.2	2.4	108.1	79.8
6th	-10.6	-2.8	7.4	5.5	7.2	12.7	-2.6	-22.1	-5.9	-6.7	1.7	41.2
7th	-1.3	4	-37.1	21.7	-4.1	2.4	-14.1	26.1	-17.8	15.5	-31.9	-18.6
8th	44.9	-2.9	54.8	30.5	24.8	27.8	74.6	40.3	66.4	37.6	69.1	8.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1882.8		-436.2	0	-8174.8		-514.1		-39			
RMS	1030.7		159.2	0	1907.8		143.4		12.4			
1/2 P-P	2258.5		249	0	2814.3		233.7		25.5			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1102.8	-445.7	-117	181.1	0	0	295.6	2657.8	-152.1	-118.8	11.3	-2.3
2nd	265	-100.6	-45.3	18.6	0	0	49.5	-251.2	49.8	-10.2	-7.3	2.4
3rd	163	81.9	-18	-20.5	0	0	49.9	134.7	-10.7	4.3	5.3	4.7
4th	265	-656.5	-24.1	0.7	0	0	-8.8	-35.8	-27.1	-6	-4.3	-2.7
5th	198	99.7	-10.5	4.6	0	0	31.7	-87.9	-7.7	-7	2.5	-2.8
6th	-6.5	63.4	5.8	0.1	0	0	-0.8	27.4	-7.2	1.2	0.6	0.2
7th	9	-37.3	5.5	-3	0	0	-10.9	2.4	-4.2	-3.2	-1.7	-0.6
8th	-10.7	-25.9	-6.2	-0.1	0	0	54.4	56.7	-6.9	1.5	-0.4	-1.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1385.9		1178.5		-536.8		562.2		497.6		56.7	
RMS	347.4		220.2		186.8		219.6		259.9		515.1	
1/2 P-P	661.8		422.7		401.1		461.8		505.5		970.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-335	-75.7	-216.9	-82.8	11.1	-213.4	21	-251.9	33	-288.7	96.7	-489.3
2nd	70.8	-182.3	41.8	-103.9	-73.1	36.6	-86.2	44.3	-117.1	61.2	-338.6	119.2
3rd	238.1	-139.4	137.5	-79.8	-78.8	23	-91.7	29.6	-130.9	53.6	-341.1	165.7
4th	55.2	38	33.5	12	-18.3	-40.6	-22.1	-47.7	-38.4	-54.5	-65	30.6
5th	8	-20.6	6.3	-10.1	-11.8	17.7	-11.8	20.3	-19.2	24.4	16.8	27.4
6th	19.2	2.6	10.6	-2.2	-18.1	-11.2	-20.8	-13	-31.4	-11.3	24.7	15.9
7th	13	0.6	8.5	-1.6	-13.1	-5.6	-17.1	-5.9	-21.8	-1.2	12.9	21.6
8th	23.8	0.7	8.9	0.4	-32.8	-5.6	-37.9	-6.8	-40.9	-6.5	40.2	28.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-451.1		-826.2		-902.2		-8163.7		-2679.1		-461.1	
RMS	600.4		584.8		415.9		3788		1697.6		156.1	
1/2 P-P	1211.4		1223.7		1222.4		5616.8		3748.6		266.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	119.3	-463.4	144.6	-355.7	-9.7	-117.1	-4694.1	2507.7	-1046	886.8	144.2	-145.4
2nd	-483	59.3	-518.3	36.7	-302	10.8	306.2	391.7	475.2	-165.1	-46.2	38.2
3rd	-343.1	297.9	-352.5	281.2	-318.6	196.5	264.2	-29.1	-336.4	-208.1	21.3	33.5
4th	23.3	82.7	72.8	152.4	40.5	150.2	-46.8	46	931.7	-1558.9	1.3	-1.3
5th	30.2	-37.7	22.9	-127.5	64.4	-89.4	80.8	43.1	-214.6	-197.7	29.2	-11.5
6th	50.4	-48.9	4	-34.8	-27.1	-63.4	-2.7	2.2	-43.7	37.8	0.3	-3.4
7th	-2.2	-8.8	-12.6	-10.7	-47.5	9.1	-26.1	-35.9	40.2	43.9	-9.8	2
8th	-53	-29.3	-64.8	-39.7	-33.9	-13.3	79.4	32.9	-65.2	-39.3	-6.6	5.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
24/23												
MEAN	1329.9		-5787.8		1417.1		-6051.5		-2730.4		-1197	
RMS	308.8		3868.1		278.3		4080.4		3452.5		2343.1	
1/2 P-P	647.1		5668.4		556.9		5976.2		5122.8		4519.1	
HARMONIC												
1st	201.8	101.8	-2087.4	-5014.6	-37.2	126.7	5237.5	-2328.9	4456.4	-1899.3	2691.1	-1409.9
2nd	-34.2	162.4	-286.5	-444.9	8.2	-166.6	303.3	468	280	374.5	399.8	85.1
3rd	-152.3	-278.2	-75.2	-260.3	-274.3	156.8	-260.7	82.3	-192.5	89.5	95.7	205.9
4th	55.9	43.2	-73.9	121.6	61.6	44.2	63.9	-52.6	153.1	-223.4	551.8	-1052
5th	40.6	-8.5	-32	89.3	-6.4	7.5	-87.6	-44.2	-40.7	-12.2	120.9	124
6th	-21.2	-1	14.1	3.8	13	11.7	5	-22.1	-7.6	-2.5	-25.9	59.7
7th	-1.4	-6.8	-8.9	-9.6	-16.3	-1.8	7.1	-10.4	-0.4	-17.5	-38.4	-37.5
8th	42.6	-2.4	87	10.2	18.3	22.3	85.6	25.4	79.7	26.1	94.5	11.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
24/23												
MEAN	-1888.1		-455.2		0		-7624.6		-545		-33.3	
RMS	1957.1		171.5		0		3974.6		155.6		14.4	
1/2 P-P	4104.4		260.2		0		5821.7		261.6		29.7	
HARMONIC												
1st	1774.7	-1169.7	-155.5	168.7	0	0	2106.2	5176.3	-139.1	-154	12.5	3.4
2nd	444.4	-67.9	-35.8	42.7	0	0	-240.7	-436.7	49.1	-28.3	-8.4	6.7
3rd	291.9	253.7	-25.8	-34.3	0	0	52.4	254.9	-24.9	19.5	6.1	4.9
4th	632.5	-1489.3	-5.7	0	0	0	17.3	-38.8	-7.8	-2.9	1	-1.9
5th	238.8	186.1	-24.8	5.8	0	0	38.8	-79.5	-10.1	-21.6	3	-2.5
6th	-41.8	81.5	0.2	0.9	0	0	-11.7	23.3	-1.6	3.5	0	-0.6
7th	-9.7	-33	12.2	-2.1	0	0	-12.3	-31	-2.1	-9.4	-2	-0.3
8th	3.3	-19.4	-7.7	0.4	0	0	76.3	31.7	-9.3	2.1	0	-1.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-792		-6013.2		-734.7		-6379.4		-3118.9		-1367.2	
RMS	354.7		1675		344.6		1858.6		1573.1		1074.5	
1/2 P-P	687.4		2592.3		674.2		2832.9		2348.2		1905.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	347.2	46.7	-312.5	-2311.5	-85.2	322	2576.4	-300.5	2190.5	-205.7	1442	-313
2nd	-252.9	228.6	106.9	-340.1	257.3	-224.3	-94.2	352.3	-52.9	266.7	121.9	58.3
3rd	-17.7	-74.2	-53.9	-82.5	-62.4	27.2	-84.8	66.3	-62.5	53.2	26.9	49.4
4th	32.7	34	-43.1	23.1	33.8	30.9	-6	-42	28.8	-69.3	156.2	-217.8
5th	41.4	-18.1	-37.9	44.8	4.9	19.3	-48.5	-27.3	-24.5	-9.3	60	83.2
6th	-14	0.9	13.2	14	12.7	8.9	-11.2	-15.4	-8.4	-5.9	-4.5	31.8
7th	4.1	9.3	-32.2	-4.2	-3.6	-5.9	-12.6	11.3	-13.6	2.4	-16.2	-19.4
8th	30.4	-1.2	13.2	24.3	5.3	30.2	21.7	29.2	20.2	23.4	31.8	17.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1863.3		-418		-633.5		-7824.8		-489.1		-41.8	
RMS	835.5		159.5		341.7		1685.5		142.7		16.1	
1/2 P-P	1705.4		251.8		663		2579		234.7		33	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1018.4	-346	-110.3	186.3	-264.5	67.6	233.1	2336.4	-157.8	-110.2	15.9	-11.2
2nd	189.8	-60	-47.6	15.4	-300.5	244.3	150.1	-319.3	47.2	-9.2	-6.1	0.8
3rd	91.4	51.9	-17.1	-13.7	31.9	41.1	51.1	102.4	-8.5	4.8	5.4	3.2
4th	197.1	-306.6	-26.8	6.3	33.5	27.6	-8.9	-30.3	-31.1	1.5	-4.8	-1.4
5th	112.7	126.4	-4.4	3.9	-11.1	34.4	22.7	-47.5	-4.7	-2.8	1.1	-2.9
6th	9.1	42.2	9.8	-1.9	-5.2	-3.7	9.3	25.5	-9.2	0.8	1.2	0
7th	4.2	-33.4	-1.6	-2.6	-4.4	-7.1	-17.2	-10.9	-3.4	-0.8	-1.5	-0.1
8th	4.9	-16.6	-3.9	1.7	24.1	11.4	2.7	36.2	-5.8	0.3	-1.6	-1.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-409.4		74.1		-670.8		409		399.8		-15.8	
RMS	432.8		254.2		171.6		202.7		239.2		421.3	
1/2 P-P	743.9		435.2		425.7		498.9		549.5		856.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-501.3	146.3	-307.6	45.8	-180.5	16.7	-214.7	34.9	-253.8	119.5	-427.6	
2nd	86.6	-201.6	59	-113.3	41.5	-40.8	50.3	-61.6	69.5	-219.4	141.3	
3rd	135.6	-142.3	80.5	-80.7	23	-50.1	29.4	-75.1	54.3	-186.5	181.7	
4th	53.3	12	31.5	1.3	-19.3	-21.7	-22.3	-35.7	-21.5	-40.8	10.9	
5th	-30.7	-69.9	-9.2	-26.7	72.2	27.6	83.2	33	103.4	11	0.2	
6th	26.5	-19.4	11.7	-10.4	8.7	-30.4	12.1	-37.3	16	24	7.3	
7th	-2.9	-1.5	4.9	-3.6	-4	18.5	-5.5	13.8	0.3	-20.6	3.1	
8th	4.1	-63.4	-6.5	-12.2	100.5	-39.1	116.4	-28	116.2	85.6	-127.7	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-402.8		-686.6		-671.7		-6869.3		-2594.7		-457.4	
RMS	491.3		493.5		336.8		1277.6		877.1		148.5	
1/2 P-P	999.7		1049.2		797.6		2254.3		2045.7		262.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	130.2	-409	126.8	-301.3	1.6	-88.4	-1617.7	651.1	-493.8	424.4	116.5	-157.6
2nd	-334.1	144.2	-334.7	94.6	-170.4	32.8	113	238.4	219.4	-115.9	-56.9	38.8
3rd	-151.8	296	-170.7	327.3	-166.2	238.3	113.8	-45.7	-219.3	-6.9	-22.2	-2.8
4th	11.1	31.5	67.5	58.3	44.9	75.8	-36.5	47.2	306.7	-795.9	0	13.6
5th	-33.9	-194.8	-46.2	-269.5	26.8	-190.1	107	109.4	-235.1	-286.5	-2.3	-8
6th	66.2	-34.2	18.7	-25.9	-29.2	-32.8	-15.5	-2	11.1	5.3	5	-2.7
7th	-2.7	-10	14	0.1	-24.9	10.8	-25.8	-19.4	18.9	27.1	0.1	0.9
8th	-35.8	44.3	-66.4	167.4	-43.5	195.5	-228.4	-191.2	229.3	171.4	-1	6.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
22/17												
MEAN	-459	-4428.7	-400.9	-5081.3	-2024.9	-855						
RMS	242.1	1584.8	230.4	1755.7	1494.8	1108.6						
1/2 P-P	549.7	2612.6	522.6	2946.2	2485	2185.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	-18	-544.8	-2120.2	103.7	34.3	2362.4	-566.7	2016.7	-464.1	1302.3	-513.2	
2nd	-37.3	-129.3	-267.4	36.5	-176.7	156.1	295.3	136.4	231.4	176.7	55.6	
3rd	-152.9	-68.6	-106.5	-158.4	147	-97.3	72.8	-63.8	65.7	86.8	42.8	
4th	52.8	-24	70.9	55	24	24.7	-9.6	50.5	-104.4	154.8	-566.7	
5th	70.9	-68.9	113.4	45.7	62.8	-127.9	-76	-57.1	-33.8	185.8	182	
6th	-30	39.1	11.4	29	-12.9	-26.8	-1.1	-19	-1.3	26.8	31.9	
7th	-4	-12.1	-2.6	-0.8	0.3	-8.2	-1.4	-13.6	-9.9	-27.4	-30.2	
8th	-1.9	-231.1	-163.1	-7.1	-54.9	-243.3	-174.9	-204.1	-172.3	-86.6	-82.3	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
22/17												
MEAN	-1695.2	-447.4	0	0	-6316.6	-520.2	-78.9					
RMS	1008.7	164.8	0	0	1534.8	153.7	13					
1/2 P-P	2302.3	276.1	0	0	2532.3	261.9	31.1					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	896.1	-512.7	-123.1	186.3	0	411.6	2081.3	-161.3	-130	11.5	-7.4	
2nd	201.7	-43.4	-45.2	39.8	0	-71.1	-245.7	51.9	-28.3	-10.3	3.7	
3rd	199.6	46.4	21.5	2.8	0	53	119.8	8.3	-21.7	-1.3	-1	
4th	142.1	-787.9	-3.3	14.1	0	-2.7	-11.5	2.1	9	-0.6	0.2	
5th	326.6	281	1.1	2.2	0	90	-116	-5.9	2.1	-1.2	-1.1	
6th	43.5	18.2	1.3	-0.4	0	22.9	27.9	-2.4	0.8	0	-0.1	
7th	1.3	-10.1	0.6	-0.1	0	-22.8	-14.3	-2.8	1.2	-1.4	-0.9	
8th	99.9	67.1	-1.8	6.6	0	-221.6	-181.4	-1.5	9.5	1.1	-0.7	

RUN/POINT 34/15	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3561.7	23.4	-1865.9	-281	-481.3	-76.5	134.9	-159.5	133	-190.6	251	-307.9
RMS	500.7	-349.7	292.4	190.6	105.8	62.4	143	53.7	184	88.7	-187.3	227.6
1/2 P-P	920.6	86.5	536.3	-108.3	204.4	-5.8	296.6	-22.8	390	-28.9	176.2	25.1
HARMONIC		-25.9	-0.4	-14.6		2.5		13.3		4	-8.2	31.1
	1st	-480.4	23.4	2.1	16.8	13.2	19.8	0.3	73.1	19.9	16.5	-11
	2nd	303	-349.7	0.1	-5	11.2	18.2	46.8	-47.4	-54.7	-11	3.9
	3rd	-199	86.5	0.1	-2.9	5.1	5.8	13.9	89.8	17	-6.8	-7.3
	4th	-4.9	-25.9	2.1	-4.8	-7.7	-18.2	8	2.2	10.2	-2.6	-9
	5th	-3.3	45.6	4				22.7	-19.5	25.4	32.1	-21.9
	6th	-8.4	-11									
	7th	-0.7	-6.1									
	8th	10.1	-16.5									
RUN/POINT 34/15	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-400.1	-310.3	171.4	-237.1	-163.2	42.1	-8493.3	-583.2	-2572.7	14.6	-367.6	-191.3
RMS	374.3	261.4	298.4	204.9	165.4	32.1	593.8	214.2	205.9	-82.6	69.5	36.5
1/2 P-P	711.1	95.1	585.7	148	435.6	56.4	1168.8	-62.5	573	55.4	-12	9.9
HARMONIC		-7	-35	-23.2		-63.1		-7.8		-39	12.4	2.1
	1st	257.2	-310.3	171.4	-237.1	42.1	493.8	-583.2	-124.3	14.6	-367.6	-191.3
	2nd	-128	261.4	-40.9	204.9	32.1	-181.1	214.2	50.4	-82.6	69.5	36.5
	3rd	99.7	95.1	58.4	148	56.4	33	-62.5	11.3	55.4	-12	9.9
	4th	-7.8	-7	-35	-23.2	-63.1	2.1	-7.8	-36.9	-39	12.4	2.1
	5th	-48.2	93	-41.4	107.9	-35.4	9.9	-86.2	-24.4	163.3	-0.3	2.5
	6th	-4.7	-33.3	-8.1	-31.9	16.6	-5.3	14.4	-0.5	-25.4	1.7	-2.4
	7th	11.7	-3.6	14.8	6.4	2.2	15	-18.3	-10.5	17.1	2.9	-0.3
	8th	-4	6.6	-25.5	43.1	-33.5	-0.8	-13.2	-2.8	10.5	0.7	1.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
34/15												
MEAN	-3665.4		-6200.2		-3652.3		-6506.8		-3358.4		-1226.9	
RMS	365.8		483.1		359.5		567.1		471.3		262.1	
1/2 P-P	714.7		1015		729.2		1115.3		874.4		580.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	101.7	-143.5	569.9	162.2	19.2	70.7	80.6	691.4	74.7	592.9	173	251.6
2nd	-255.1	347.6	158.9	-230	270.2	-351.1	-178.4	276.1	-130.9	205.6	-40.1	81.8
3rd	98.3	179	-60	-8.7	195.4	-86.9	-25	72.6	-12.4	48.4	0.3	-11.5
4th	1.4	-24.5	23.5	29.5	7.3	-25.6	-3.1	18.6	-4.9	-0.6	-25.4	-99.9
5th	-34.1	0.8	44	-8.3	1.3	-59.1	17.6	100.8	6.8	57.7	5.9	-113.1
6th	10.6	12.2	0	-1.9	-13.6	-11.3	8.3	15.5	6.6	8	-17.3	-8.5
7th	-2.5	2.3	15.9	-16.7	-3.7	3.5	24.2	-14.6	18.7	-14.5	-3.3	-17.5
8th	-2.1	-35.2	-5.2	-18.5	5.1	-10.4	-11.6	-25.2	-5.6	-23.6	-13.3	-10.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
34/15												
MEAN	-1673.3		-362		-3437.2		-7873.9		-412.5		-59.2	
RMS	261.3		167.9		437.1		586.7		150.7		15.7	
1/2 P-P	620.1		245.3		871.6		1190.6		230		30.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	205.3	93.3	-76	220.4	26.1	314	-689.8	-265.7	-193.6	-80	2.6	-20.7
2nd	15.7	7.2	-8.4	40.6	-302.9	356.2	227.5	-220.7	7.2	-36.4	0	3.8
3rd	10	-44.7	-12.7	-2	-90.9	-212.3	63.9	38.9	-7.3	4.1	3.2	3.4
4th	-36.3	-128.8	0.4	7.1	3.8	-22.3	-12.4	-3.1	2.8	3.8	-0.4	0.7
5th	-8.6	-212.2	-0.2	-0.7	63.5	-3.7	-77.1	-2.7	1.4	-1.8	0.7	1.1
6th	-18.4	-21.6	1.7	-1.4	9	11.9	-5.2	-6	-1.9	2.7	0.1	-0.1
7th	-19.8	10.2	-1.8	0	5.2	1.2	21	-19.8	0.1	2.8	0	0.2
8th	2.3	13.8	0.6	2.2	9.7	-21.1	-6	-18.2	0.7	3.4	-1.2	-0.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
34/16												
MEAN	-2281.4		-1069		-151.7		274.6		240.4		-188.2	
RMS	421.6		258.9		132		167.7		200.4		379.7	
1/2 P-P	812.9		478.1		230.8		322.1		390.1		738.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
1st	-437.4	-160.8	-258.3	-141.8	-65.7	-156.4	32.6	-206.8	62.9	-240.4	206.3	-386.8
2nd	190.8	-305.9	122.7	-173.7	35.4	-36.2	-26.7	51.3	-53.9	82	-200.4	206.6
3rd	-64.9	13.6	-32.7	2.5	1.9	-6.7	21.6	-8.8	27.7	-5.1	45.2	54.7
4th	9.9	-21.9	8	-13.8	3.4	-5.6	-6.2	8.3	-14.8	14.4	-17.3	35.6
5th	0.3	28.4	3.2	9.9	10	-10.8	10.9	-26.9	6.4	-31.3	-5.9	7.4
6th	4.1	-14.8	5.5	-6.4	6.6	5.3	4.1	17.9	1.3	21.8	1	-11.2
7th	-2.2	-12.5	2.5	-6.7	7.2	3.7	8.9	13.2	5	16.7	-3.7	-15.1
8th	-13.2	-31.1	-1.9	-5.4	10	31.3	17.1	60.7	16.7	58.8	-0.3	-74.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
34/16												
MEAN	-429.8		-547		-380.4		-7920.9		-2545.3		-418.9	
RMS	399.4		329.3		182.2		302.3		375.7		150.9	
1/2 P-P	674.1		651.5		544.7		753.7		1013		239.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
1st	217.1	-380.3	161.2	-285.6	27.8	-69.6	-275.9	-33.3	-281	203.3	87.5	-188.3
2nd	-212.4	241.8	-160.3	192.3	-51.6	68.1	-62.4	256.7	120	-99.9	-25.7	37.8
3rd	11.6	128.5	-19.7	170.3	-18.3	143.6	35.6	-50.7	-15.4	49.4	-3.5	13
4th	-4.9	11.8	-6.4	14.5	-34.1	51.4	7.7	13	32.4	-303.4	-4.1	-4.8
5th	-12.1	35	-7.5	16.7	6.7	-14	15.8	-32.5	-36.8	57.7	4.4	2.1
6th	19.2	-39.4	10	-29.5	12.6	-26.8	-2.2	18.2	-1.2	-28.3	2.1	-0.7
7th	3.4	-12.3	12	11.5	-5.3	40.1	4.5	-32.2	-2.8	32.6	0.8	0
8th	1	26.7	22.8	90.9	31.2	102.7	-83.4	-34.1	84.1	26.3	0.5	3.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-2360.5	-5724.4	-2335	-5902	-2779.8	-1022.4						
RMS	323.1	545.1	306.4	722.3	615.5	494.2						
1/2 P-P	586.3	1104.6	578.2	1342.1	1102.6	966						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	305.6	-79.4	35.6	-694.3	0	267.9	945.9	120.6	812.7	127.6	624.4	-86.7
2nd	-134.6	290	41	-274.3	153.6	-292.6	-59.4	302.2	-39.2	229.1	37.7	73.8
3rd	10.7	36.7	-50.7	-18.3	48.9	-2.3	-23.5	59.1	-13.8	42.4	19.8	0.7
4th	16.4	-20.7	5	49.1	18.8	-15.8	-14.4	4.1	2.6	-38.5	52.9	-257.2
5th	-10.9	2.5	16	0.5	-4.3	-28.2	8.5	28.2	2.7	16	-0.4	-39.8
6th	-3	12.5	15.7	3.7	0.4	-13.4	2.5	3.5	3.5	2	-10.2	5.3
7th	-8.3	5.1	-0.3	-31.4	0.4	10.1	3.7	-17.3	3.4	-17.4	-8.7	-16.7
8th	-33.7	-47	-85.4	-23.7	-24.4	-32.5	-102.4	-33.3	-82.6	-34.3	-51.8	-20.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1619.5	-409.9	-2160.1	-7310.3	-470.6	-60.3						
RMS	460.1	170.7	342.6	483.4	154.3	18.6						
1/2 P-P	990.6	267.1	681.8	981.9	245.3	34.4						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	488	-172.6	-94.3	217.1	-179.8	242.1	-158	574.4	-189	-99	10.2	-23.2
2nd	74.4	-14.9	-20.2	40.3	-191.8	309.6	112	-252.4	21	-36.4	-4.2	3.5
3rd	34.2	-25.8	4.8	-9.3	-4.8	-71.7	50.9	41.2	-10.3	-8.6	0.7	1.8
4th	61.1	-346.6	-1.4	0.7	16.6	-18.4	-8.9	-4.2	-2.3	-4.5	-1.1	-1.4
5th	-4.3	-64.3	-4.4	-0.5	40.5	-8	-50.5	7.5	2	-5.4	-0.6	0
6th	-3.3	0.3	1.3	0	-1.5	17.7	-3.4	-2.7	-1.9	0.2	-0.2	0.3
7th	-8	7.3	-0.2	-0.6	11.1	-3.7	9.8	-22.6	-1.3	0.3	-1.6	-0.2
8th	46.6	15.6	1.2	3.9	-24.5	-39.4	-86.2	-37.6	1.3	5.6	0.2	-0.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
34/17												
MEAN	-1143.6	-4904.9	-1093.6	-5269.2	-2221.7	-844.5						
RMS	189.5	1307.5	198.7	1503.5	1269.5	909.7						
1/2 P-P	401.7	2210	391.8	2445.1		1692.1						
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	24.4	95.8	-19.1	-1805.8	-135.3	1	2085.1	-5.9	1761.7	15.4	1183.5	-191.3
2nd	-31.4	197.2	-82.4	-270	43.4	-203.2	86.8	280.3	77.3	216.5	114.7	54.8
3rd	-64.8	-82.7	-65.1	-54.3	-73.7	65.7	-46	72.9	-27.9	63.3	51.2	38.8
4th	39	9.2	-24.3	48.4	42.8	12.6	-3.6	-22.5	34.1	-73.7	169.1	-354.2
5th	29.3	-46.4	-14.9	77.3	40.6	7.5	-59.7	-27.6	-23.5	-13.2	109.9	60.1
6th	-14.7	20.2	15.3	-5.7	17.4	-19.2	-9.5	4.9	-3.6	1.7	1.9	-0.1
7th	-4.9	5.8	-3.8	19.6	-4.3	2.1	-3	31.4	-6.1	18.6	-10.7	-16.3
8th	-18.5	-65.9	-174.5	-87	-16	-40.6	-193.5	-95.3	-159.6	-96.8	-90.2	-51
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
34/17												
MEAN	-1560.8	-444.1	-947.7	-6597	-511.2	-56.9						
RMS	755.2	168.2	213.8	1228.8	153.8	15.2						
1/2 P-P	1619.9	275	403.5	2053	252.5	30.6						
HARMONIC												
	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-275.2	-114.3	201.3	105.2	76.3	-149.7	1690.4	-173.7	-119.5	14	-12.6	
2nd	-31.3	-33.2	38.4	-97.7	224.3	-18	-238.8	38.6	-29.9	-8.3	4.2	
3rd	25	16.6	-2.6	64.3	38.5	67.1	69.4	4.2	-18.2	-1	-0.3	
4th	-478.7	2	-0.4	37	2.5	-9.4	-24.4	0.5	-1.6	-0.3	-0.5	
5th	86.9	0.3	-4.3	11.1	34.1	-6.7	-77.7	4.5	-0.1	-1.9	0.5	
6th	-6.7	0.6	-1.7	-14.9	20.5	15.9	-6.5	-1.2	0.4	0	0.1	
7th	-19.4	-0.7	0.5	6.9	-2.8	-12.4	14.4	-0.3	0	-1	-0.1	
8th	36.9	0.6	4.2	-23.8	-60.5	-172.6	-98.7	0.2	6	-0.1	0.1	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	-368	115.4	335.8	488.4	410.6	-10.4				
RMS	370.8	221	113.3	190.3	231.6	416.9				
1/2 P-P	687.5	399.6	272	462.4	507.4	816.7				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-435.4	72.5	-267.6	0.5	-116	17.1	-219	41.9	-268.1	128.7
2nd	34.9	-203.6	28.9	-115.3	-16.6	-32.4	49.7	-51.7	73.5	-201.3
3rd	130.9	-89.7	77.1	-52	-18.5	-43.2	11.3	-67.7	30.3	-171.3
4th	54.2	5.9	32.5	-1.4	-15.9	-18.6	-18.9	-34.2	-17.6	-42.4
5th	-33.1	-47.1	-10.1	-18.3	19.4	33.1	56.2	37.4	71.6	10.8
6th	20.3	-21.6	9.5	-10.5	2.7	-22.2	17.4	-27	24	18.4
7th	-4.6	-3.6	4	-4.7	-4.3	18.2	-1	15.4	3.5	-21.9
8th	-2.1	-48.9	-6.6	-9.2	47.4	-23.2	90.5	-16.8	90.7	59.7
										-103.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	-413.1	-688.4	-665.9	-6780.2	-2447	-467.8				
RMS	488.4	475.3	309.8	1469.2	960.1	154.1				
1/2 P-P	968.5	946.9	751.9	2676.3	2260.6	259				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	142.8	-449.2	135.7	-336.6	-97.2	-1782.3	944.2	-536.2	523.2	118.9
2nd	-328	159.6	-336.9	113.6	45.7	186.2	264	227.7	-123.3	-51.3
3rd	-143.5	251.4	-167.7	286.5	211.4	97.2	-51.1	-174.6	-41.3	-19.8
4th	15	27.5	67.9	53	72.6	-38.7	54.1	489.8	-845.4	-2
5th	-46.4	-145.3	-63.5	-208.2	-147.1	105	91.5	-233	-257.8	-4.2
6th	62.4	-43.4	27.1	-35.6	-39.7	-14.2	-0.1	10.6	-6.8	4.2
7th	-2.7	-13.2	17	3.3	19.6	-15.6	-16.3	12	21.2	2.3
8th	-27.6	36	-40.2	133.6	160.7	-239.5	-140.1	243.1	131.4	-0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$
34/18												
MEAN	-445.1	-446.8	-379.8	-4866.8	-1859.5	-731.9						
RMS	214.1	1776.3	204.6	1939.9	1647.3	1217.8						
1/2 P-P	477	2947.5	477.9	3240.7	2810.9	2409.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$
1st	74.6	-29.9	-795.6	-2327.7	31.7	46.9	2558.4	-834.3	2181.6	-677	1408.6	-644.3
2nd	18.1	163.9	-193.9	-297.4	-11.2	-176.5	215.3	307.6	186	244.2	192.3	59.5
3rd	-108.3	-170.3	-67.4	-88.3	-158.2	104.7	-81.7	67.4	-53.1	63.4	72.7	71.3
4th	53.8	12.2	-49.4	73.5	62.6	16.3	14.6	-14.5	71.3	-111.8	290.9	-590.3
5th	68.6	-43.1	-61.3	107.1	39.7	35.7	-102.2	-68.8	-46.1	-31.9	152.7	146.2
6th	-23.2	20	39.1	2.6	22.4	-16.9	-24	-6.8	-16.8	-5.7	1.9	10.2
7th	-6.5	8.5	-10.7	-0.4	0.3	1.5	-10.5	1.9	-14.6	-6.5	-14	-28
8th	-11.3	-62.2	-239.1	-108.8	-18.6	-45.8	-265.1	-121.9	-221.8	-125.5	-117.4	-65.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.450$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.400$
34/18												
MEAN	-1526.5	-460.7	-256.2	-6216.1	-531	-53.3						
RMS	1074.8	171.3	248.9	1671.4	158.8	14.9						
1/2 P-P	2380.5	282.7	549.2	2823	264.9	29.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.450$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.400$
1st	959.4	-604.9	-125.6	197.2	53.6	201.2	665.5	2218.6	-170.5	-132.2	11.1	-12.6
2nd	205.1	-35.5	-38.9	43	-45.1	192.6	-131.9	-259.7	46.8	-30.3	-10	5.4
3rd	155.4	75.2	21.3	2.7	101.5	130.9	62.7	101.1	9.3	-21.7	-2.5	-1.4
4th	340.4	-820.4	1.4	5.9	55.7	7.7	-12.1	-5.7	1.1	5.8	-0.7	0.1
5th	272	229.6	1.4	0.5	-32.5	31.1	54.4	-102.5	0	-1	-2.2	0.4
6th	22.7	12.7	1.9	-2.7	-20.6	22	16.6	13.4	-3.6	1.6	0	0.1
7th	-6.8	-12.2	-1.5	-0.7	7.4	-6.9	-14.4	-9.1	-2	-1.4	-1.1	-0.2
8th	104.4	42.8	0.6	5.7	-15.7	-66.5	-238.2	-132.2	-1.1	7.5	-0.4	-0.5</

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	201.6		470.2		483.7		559.3		467.9		54.8	
RMS	372.2		223.1		130.2		222.3		270.5		465.5	
1/2 P-P	739.8		413.1		303.8		544.6		602.2		952	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-394.4	-29.4	-243.4	-60.7	-51.9	-147.6	21.2	-237.4	41.8	-286	111.6	-493.5
2nd	48	-204.6	36.4	-114.9	0.5	-16	-34.7	51.2	-56.4	74.7	-214.1	155.7
3rd	191.1	-131.6	110.5	-74	10.7	-21.8	-64.8	23	-100.4	48.3	-245.6	173
4th	58.6	12.3	34.4	0.5	6.9	-18.9	-22.6	-26.3	-39.2	-25.9	-47.4	16.7
5th	-49.1	-99.6	-16.3	-37.7	16.1	43.8	43.2	119.4	52.3	146.6	18	-4
6th	35.2	-15.1	13.8	-7.1	-13.9	2	-39.9	12.5	-47.3	18.5	32.8	5.7
7th	-4	-2	4.1	-2.5	14.5	-0.7	19.3	3.4	15.5	6.3	-21.2	-11.2
8th	-9.6	-57.5	-10.1	-13.4	-15.5	52.1	-18.5	103.1	-10.9	102.7	60.3	-120.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-400.6		-723.9		-755.8		-6379.6		-2443.8		-481.8	
RMS	557.7		566		376.8		2210.3		1247.9		158.3	
1/2 P-P	1175.8		1173.1		867.7		3686.2		2834.6		287.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	122.6	-479.1	127.5	-354	-5	-99.1	-2591.8	1644.7	-667.9	723.5	129.4	-162.2
2nd	-356.2	157.8	-374.2	104.3	-205.1	38.1	202.9	309.8	263.2	-142.9	-62.6	43.3
3rd	-194.3	297.8	-213.8	328.7	-204.8	233.3	139.9	-49.5	-272.5	-69.8	-22.5	-8.8
4th	33.1	30.2	110.5	62.5	84.6	84.4	-52.8	57.9	524.4	-1122.4	-1	18
5th	-69.2	-276.2	-95.7	-368.4	-2	-252.3	147.2	136.9	-330.7	-415.7	-4.1	-12.4
6th	81.9	-33.8	25.9	-24.3	-34.2	-40.6	-45.2	-23.3	40.5	30.6	5.2	-3.5
7th	-6.6	-8.4	13.5	21.7	-30.6	37.3	14.4	6	-18.1	1.1	0.4	2.3
8th	-35.3	42.6	-39.3	154.4	-4	190.3	-253.5	-233.4	260.5	222.6	-1.3	4.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	119.8		-3868		210.8		-4635.1		-1621.4		-667.9	
RMS	293.4		2499.7		273.9		2662.7		2255.2		1609.9	
1/2 P-P	647.7		4036.7		590.8		4370		3711.5		3136.5	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	174.4	41	-1459.2	-3159.8	-12.5	148	3369.4	-1550.1	2874.6	-1267.1	1787	-1026
2nd	11.1	171.2	-211.7	-371.8	-6.3	-185	226.6	391.2	197.5	311.2	211	94.5
3rd	-161.1	-229.7	-56.6	-142.2	-217.4	153.2	-139.6	69.2	-96.5	69.2	102.3	97.3
4th	57.1	22.2	-42.6	87.9	65.7	23.1	34.3	-17.9	81.2	-146.8	275.8	-781.8
5th	114.8	-59.3	-101.6	149.5	62.1	84.4	-151.2	-111.3	-63.8	-45.3	240.4	259.9
6th	-35.6	21.8	43.1	8.5	33.7	-17.2	-31.6	-9.7	-19.1	-5.2	15	20.7
7th	-6.2	9.8	38.3	16.3	-1.5	2.3	28.3	17.2	16.5	9.1	-12.9	-25.1
8th	-9.3	-88.3	-264.7	-202.3	-9.6	-62.5	-283.4	-230.7	-231	-221.8	-123.6	-123.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1537		-475.6		309.6		-5820		-550.4		-49.2	
RMS	1410		174.9		269.5		2421.5		164		14.6	
1/2 P-P	3020.3		293.1		607.9		3928.5		286.6		30.2	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1191.1	-892.5	-137.7	190.7	-62.5	131.8	1375.3	3083.8	-165.4	-144.3	10.4	-11
2nd	235.2	-25.9	-48.3	49.9	-51.2	191.3	-150.1	-332.7	58.1	-33.2	-11.6	5.7
3rd	223.2	109.6	22.1	8.5	153.1	191	60.9	159.1	13.2	-22.1	-2.1	-2.3
4th	288.2	-1081.8	1	16.1	60.6	10.9	-3.7	-4.1	3.2	14.8	-0.9	0.9
5th	425.6	392.7	1.5	5.2	-87.3	61.3	104.7	-154.2	-6.5	0.9	-1.9	0.1
6th	40.9	19.6	3.6	-2.9	-36.8	18.1	30.2	12.1	-4.4	1	0	-0.1
7th	-31.7	-23.5	0.5	-3.5	9.8	-7.1	11.6	3.8	-3	-2.9	-1	-0.3
8th	109.8	79.4	-1.1	7.9	-14.1	-76.1	-237	-228.2	-3.2	8.5	0	-1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$					
MEAN	-401	-771.7	-851.8	-6003.2	-2414	-487.6					
RMS	600.9	619	435.4	2831.3	1551.1	160.1					
1/2 P-P	1291.9	1258.4	1053	4636.3	3289.2	309.3					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE					
1st	102.7	-509.4	121	-383.1	-119.4	-3308.3	2145.4	-788	900.3	139.1	-156.8
2nd	-395.1	127.4	-433.8	75.4	-258.4	28	311.5	318.1	323.7	-164.3	43.9
3rd	-255.8	348.5	-271.2	370.4	-257.9	253.8	217.9	-28	-383.5	-98.1	-10.8
4th	52.9	63.1	150.1	113.5	120	121.5	-57.7	63.4	647.7	-1499.7	2.3
5th	33.8	-250.2	23.5	-348.9	93	-232.9	112.3	133.8	-257.3	-403.8	1.8
6th	97.6	-22.5	38.2	-16.2	-32.3	-42.5	-27.6	-30.6	13.4	53.9	5.1
7th	-8.1	-14	14.6	11.6	-35.3	16.9	13.3	0	-8.9	12.2	-2.9
8th	-44.6	48.6	-48.2	174.6	-8.3	218.4	-339.5	-210	352.4	197.7	0.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	836.4		-3552.7		945.7		-4360.3		-1363.7		-609.7	
RMS	318.4		3151.7		306.6		3208.5		2727.1		1961.3	
1/2 P-P	652.1		5040.5		665.4		5274.1		4532.8		3771.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	22.3	14.9	-1874.1	-3976.9	61	-10.9	3990.8	-2030.9	3411.1	-1682.3	2098.4	-1315.3
2nd	85.2	139.4	-316	-381.3	-81.5	-142.7	293.2	395.4	252.8	314.8	265.9	80.8
3rd	-230.7	-302	-59	-219.5	-286.4	226.4	-223.9	62.9	-157.7	69.7	127.3	122.8
4th	76.7	37.6	-41.5	111.8	86.7	39.2	49	-31	106	-206.6	338.3	-1075.5
5th	104.8	-17.4	-81.4	130.1	28.5	82.7	-126.6	-127	-48.6	-51.7	203.7	279.3
6th	-44	17.7	34.5	11.5	41.8	-9.8	-24.2	-27	-14.1	-16.4	7.2	46.3
7th	-3.2	10.6	9.1	20.2	2.7	-1.5	18.6	51.5	5.2	29.8	-10.3	-34
8th	-14.8	-90.1	-346.7	-186.8	-15.9	-59.6	-364.1	-190.5	-305.9	-196.5	-157	-105.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1536.8		-482.3		1022.2		-5479		-562.7		-41.2	
RMS	1742.1		174.8		324		3047.2		164.8		11.5	
1/2 P-P	3606.3		303.1		712.9		4941.5		295.2		25.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1378.5	-1120	-145.6	183.7	86.3	155.9	1810.4	3853.8	-158.4	-151.6	4.6	-2.6
2nd	291.1	-41	-45.7	50.7	20.7	162.1	-233.3	-349.1	60.1	-35.2	-12.3	6.5
3rd	306.5	151.7	25.6	4.7	231.7	268.7	54.5	216.2	12.5	-21.4	-1.5	-2.4
4th	348.9	-1485	-4.1	22.9	82.3	25.1	8.9	-24.9	4.2	14.4	-0.2	0.4
5th	380.8	427.8	-4.1	9	-88.9	25.1	106.6	-129.4	-16.9	-2.9	-0.1	-0.7
6th	33.7	53.2	5.4	-1.9	-40.3	15.6	23.7	20.9	-4.1	1.2	-0.1	0.3
7th	-21.4	-50	2.5	-2.9	7.8	-9.6	6.4	12.9	-5.2	-3	-1.5	-0.3
8th	153.5	63	-1.8	8.4	-23.2	-74	-320.1	-206.8	-3.1	9.6	0.2	-2.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1664	1375.2	856.4	718.1	591.5	176.3						
RMS	666	399.1	163.2	255.2	318.2	551.6						
1/2 P-P	1177.9	696.1	386.1	615.2	712.1	1157.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-797.4	150	52.7	-116.7	-26.6	-244.8	4.3	-306.4	61.8	-558.8		
2nd	-130.9	-102.5	-71.6	3.5	-43.1	50.6	-56.8	67.2	-213	103.7		
3rd	355.8	-190.7	202.3	-27.3	-121.5	34.4	-182.5	68.3	-419.3	189.3		
4th	95.3	35.5	54.5	-28.4	-37.7	-45	-61.1	-47.2	-74.1	5.8		
5th	-45.2	-134.3	-15.5	55.9	26.7	155.4	31.5	191.3	30.1	-7.3		
6th	42.2	-22.7	18.3	-11	-40	15.4	-50.1	21.3	34	7.4		
7th	-5.2	-2.7	3.4	-8.3	12	-4.8	9.4	2.5	-21.6	0.2		
8th	-8.7	-63	-14.3	61.6	-34.8	113.8	-25.8	114.6	85.4	-134		
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-390.4	-810.2	-943	-5849.3	-2434.5	-492.2						
RMS	675.2	721	508.3	3543.4	2033.7	168.9						
1/2 P-P	1404.8	1395.3	1195.9	5543.1	4281	313.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	89.4	-553.5	123.7	-428.4	-9.2	-3460.6	3530.4	-793.9	1248.2	157.3	-158.2	
2nd	-461.7	85.1	-537.5	43.8	-348.4	22.4	547.8	412	-158.4	-51.3	50.2	
3rd	-326.3	330.4	-341.2	349.1	-324.1	236.4	-21	-477.5	-212.1	-24.1	0.2	
4th	41.7	45.3	152.2	92.1	121.8	101.4	-94.2	1151	-1898.5	14.7	24.1	
5th	-34.9	-360.3	-64.5	-482	39.5	-328.2	202.3	-369.8	-602.7	7.6	-15.5	
6th	101.7	-36.7	39.4	-26.1	-35.5	-51.4	-9.4	-17.6	31.3	8.7	-8.5	
7th	-7.9	-16.5	0.4	12.8	-58	28	-49.2	9.7	44.8	-4.9	6	
8th	-51.5	51.4	-69.9	162	-28.8	205.2	-165.4	335.1	154.3	-1.8	6.1	

RUN/POINT	34/21	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
		Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN		1582.4	-3370.4	1715.6	-4071.8	-1077.8	-541.5						
RMS		438	3749.1	476.7	3792	3236.8	2389.6						
1/2 P-P		863.7	5879.6	961	6137.9	5364.8	4719						
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st		-6.8	-308.8	-4187.2	422.3	-60.4	4057.2	-3394.8	3509.6	-2835	2121.7	-2026	
2nd		169.2	79	-327.5	-182.1	-79.6	564.2	357.3	475.4	295.6	422.2	73.9	
3rd		-213.2	-401.7	-279.3	-382.1	220	-265	38.9	-188.7	57.7	167	174.6	
4th		92.5	34.3	136.8	109.6	37.3	78.1	-19.7	176.8	-257	578.6	-1381.3	
5th		149.6	-50.2	176	65.5	119.5	-210.4	-161.5	-91.1	-67.7	310	391.2	
6th		-46.5	26	14.7	39.3	-12.8	-25.5	-32	-16.9	-15.9	6.8	57.7	
7th		-9.9	4.4	-21.5	-1.4	4.4	13.3	8.1	5	-1.8	-28.3	-38.8	
8th		-14.8	-87	-337.4	-139.6	-56.2	-352.9	-153.5	-295	-165.7	-142.7	-92.4	
RUN/POINT	34/21	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN		-1535.9	-488.7	1759.8	-5252	-576.4	-33.2						
RMS		2212.4	181.9	486.6	3627.4	172.9	11.7						
1/2 P-P		4615.2	310.4	939.7	5836.7	307.8	29.9						
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
		Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st		1379.6	-1612.1	-166.1	179.9	468.9	3118.8	3999.4	-155.7	-171.1	-3.5	6.3	
2nd		413.2	-40.9	-33.5	57.9	96.6	-452.6	-325	56.7	-41.9	-10.3	8.2	
3rd		391.5	239.2	21.3	-1.1	361.8	18.2	262.1	7.3	-20.3	-0.5	-1.6	
4th		634.9	-1939	-1.7	28	25.8	5.4	-15.8	5.6	13.9	1.7	0.7	
5th		571.3	583	-10.8	8	67.7	174.7	-180.5	-15.2	-8.8	1.2	0.8	
6th		41.9	73.4	5.2	-2.7	25.6	7.9	38.9	-5.7	4.2	0.2	-0.2	
7th		-28.7	-29.6	4.6	-3.6	-5.5	8.8	-18.3	-6.1	-5.1	-1.8	-0.9	
8th		154.8	44.1	-1.9	8.7	-65.5	-318.6	-160.7	-3	9.1	0.7	-1.8	

RUN/POINT 34/22	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3040.1	2229.5	1208.7	885.2	729.4	321.5						
RMS	857.6	507.9	173.4	295.4	377.5	606.8						
1/2 P-P	1648.9	963	397.9	744.5	888.3	1365.8						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-828.6	444.2	-523.7	240.3	-148.9	-49.9	-27.2	-236.6	3.2	-313.8	32.5	-603
2nd	-455.5	3.3	-267.5	1.8	-99.3	21.7	-33.1	49.3	-23.5	61.4	-133.4	66.6
3rd	451.8	-311.4	257.2	-170.3	17.1	-41.3	-151.6	55.9	-229	105.2	-497.6	264.1
4th	123.6	36.5	66.8	3.7	-1	-41.2	-61.6	-63.4	-90.4	-67	-79.6	14.4
5th	31.3	-207.4	14.7	-80.5	-25.7	75.7	-67.7	219.7	-79	274.9	37.6	-19
6th	49.1	-29.5	17.4	-11.5	-22	7.6	-57.6	26.3	-69.2	32.6	57.6	-8.9
7th	-14.3	0.1	1.9	-7.6	22	-13.2	32.4	-12.2	30.5	-5.3	-50	10.1
8th	-42.8	-57.1	-29.2	-10.3	-10.8	61.9	3.9	112.5	14.2	110.8	35.9	-153.1
RUN/POINT 34/22	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-340.5	-853	-1089.8	-485.2	-2346.4	-478.3						
RMS	802.9	914.7	703.1	5354.5	2776.2	199.6						
1/2 P-P	1832.4	1887.7	1628.1	8543	5615.7	380.8						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	35.9	-630.2	85.1	-523.2	-28.9	-213.6	-5242.3	5301.5	-1051	1764	219.9	-126.5
2nd	-498.3	52.4	-668.4	32.1	-497.9	31.9	1030.2	201.7	563.4	-173.3	39.1	27.4
3rd	-326.9	421.8	-305.3	435.5	-324.4	276.1	386.7	11.1	-727.7	-313.1	-72.6	-37.5
4th	136.5	29.9	307.9	70.2	286.8	83.8	-29.4	158.9	679	-2951.8	-18.9	58.5
5th	178.3	-510.1	173	-696.4	244	-498.1	147	205.2	-288.1	-735.7	21.8	-2.5
6th	126.3	-39.8	52.9	-7.4	-65.8	-53.3	4.3	-11.2	-60.3	69	11.4	-3.9
7th	-7.7	-26.6	22.9	23.6	-52.5	54.8	32	-37.6	-23.1	69.4	-4	3.1
8th	-46.9	61.3	-2.4	154.4	76.1	214.2	-513.5	-108.2	537.3	95	-0.1	5.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	2963.4	-2120.9	3136.1	-2971.3	-82.9	-184.9						
RMS	631.8	5718.4	717.1	5582.3	4765.6	3329.1						
1/2 P-P	1276.9	8894.9	1373.3	9118.9	7913.4	6501.3						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	-184.2	-247	-6343.2	468.3	-342.2	5676.4	-5310.4	4911	-4458.4	2896	-3049.5	
2nd	467.7	46.9	-401.9	-509.6	17.8	1074.9	289.5	891.9	252	680.3	57.4	
3rd	-384.9	-502.1	-405.4	-477.3	365.3	-388.6	33.4	-260.2	66.4	291.4	214.8	
4th	94.8	44.3	168.3	132.6	36.5	90.7	-92.1	130.8	-390.7	241.3	-1822.6	
5th	214.8	-17.1	189.7	18.5	180.4	-210.3	-160	-93.6	-41	269.3	514.7	
6th	-56.2	35.4	15.1	55.1	-25.5	-13	-32	-14.3	-6.8	-31.9	79.8	
7th	-14.5	14.2	-18.6	4.3	4	27.2	13.5	14.7	-1.6	-12.9	-59	
8th	-41.4	-109.1	-70.2	-39	-62.3	-537.5	-81.9	-461.6	-113.6	-232.2	-58.1	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1429.2	-485	3124.3	-4080.4	-586.6	-10.3						
RMS	2925	211.2	640.4	5623.1	189.4	30.4						
1/2 P-P	6017	402.1	1247.2	9058.2	369	67.7						
HARMONIC	SINE		COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1832.1	-2357.5	-230	137.8	293.4	393	4819.9	6199.7	-112.4	-225.3	-11.7	37
2nd	610.5	-49.6	66.6	38.3	418.8	46.5	-928.9	-394	-24.8	-41	1.3	5.8
3rd	652.3	300.2	59	53.4	372.5	445.4	-1	382.7	58.7	-28.8	-5	-9.9
4th	117.6	-2502.3	-35.3	31.7	116.9	23.6	23.1	-16.8	-19.5	2	-5.6	4.1
5th	522.9	756.3	1.7	-3.1	-185.5	8.9	170	-161.1	-12.2	8.6	0.6	5.2
6th	-12.2	92.2	8.9	5.9	-54.6	33	-15.5	24.7	-2.8	-12.9	1.5	0.6
7th	-37.1	-66.4	-1.4	-6.9	14.9	-14.4	39.6	5.9	-12.7	-3.3	-1.8	-1
8th	219.4	37.5	3.5	7.8	-52.7	-76.7	-483.7	-120.4	-0.5	10.7	0.8	-0.8

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
35/32						
MEAN	-3546.6	-1861.4	-485.6	0	141.2	-239.1
RMS	353	216.6	126.2	0	188.9	347.2
1/2 P-P	630.9	358.2	253.1	0	401.4	690.7

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	174.2	-139.3	117.2	-116	87.2	-122.8
2nd	233	-331.5	148.1	-189.3	48.8	-45.9
3rd	-147	77.2	-79	37.4	-2.6	-0.3
4th	-5.5	-28	0.3	-15.7	4.5	-3
5th	-48.1	26.5	-15.6	8.3	26.3	-9
6th	-3.5	-10	1.5	-5.4	6.2	1.1
7th	4.4	-5.9	3.9	-3.8	1.5	-1.9
8th	-19.2	-42.1	-1.4	-8.5	18	38.9

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
35/32						
MEAN	-368.3	-419.5	-180.7	-8217.8	-2592.1	-383.7
RMS	353.1	293.8	177.8	579.5	294.3	150.2
1/2 P-P	694.9	574.5	469	1075.5	692.7	247.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	232.2	-316	154.3	-243.5	25	-66.1
2nd	-107.7	224	-38	173.5	22.7	47.4
3rd	66.3	73.5	32	114.2	35.3	112.2
4th	-3.6	-10.9	-24.3	-30.2	-50.7	-0.8
5th	-133.7	41.8	-140.2	45.4	-97.6	10
6th	6.7	-25.9	4.8	-21.3	21	-10.1
7th	11.8	-4.1	3.4	2.9	-11.9	23.5
8th	10.5	26	46.7	115.3	39.9	120.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
35/32												
MEAN	-3670.1		-5843.3		-3643.1		-6258.6		-3162.6		-1222.2	
RMS	501.4		754.1		568.3		977.1		804.8		541.6	
1/2 P-P	825.6		1379.1		948.4		1710.5		1383.8		954.7	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	278.9	515.5	440.3	-907.8	-650.2	246.3	1224.4	529.3	995.2	479.4	716.3	166.3
	-174.7	314.6	122.9	-263.5	188.5	-311.2	-118.1	276.1	-88.2	206.5	-24.3	82.7
	78.1	117.5	-46.4	5.2	131	-73.1	1.6	65	5.5	43.8	11	-7.7
	0.1	-21	5.1	21.7	-0.1	-25.2	7.2	-1.8	6.4	-20.4	-12.5	-118.8
	-21.3	-54.7	42	40.9	49.4	-37.1	-38	49.2	-15.2	23.2	94	-71.4
	2.6	13.6	0.3	-17.6	-5.8	-13.3	10.3	15.5	9.1	8.8	-6.3	-21.4
	-1.8	-3.1	16.3	10.4	-10	5.2	16.9	14.6	11.2	9.6	-3.8	-10.7
8th	-44	-48.9	-78.8	-10	-30.8	-23.6	-86	-12.2	-71.4	-14.8	-43.5	-8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
35/32												
MEAN	-1709.7		-375.3		-3425.6		-7575.3		-427.6		-69.7	
RMS	420.5		171.7		413.5		760.9		153		21.4	
1/2 P-P	877.5		271.2		753.6		1343.9		251.1		35	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	526.9	26.6	-88.6	220.3	-177	-336.7	-574.3	830	-191.9	-87.8	21.1	-20.7
	13.1	9.5	-7	48.3	-229.3	324.1	186.7	-250.7	6.5	-43.2	-0.4	3.2
	6.2	-29.3	0.5	-1.1	-78.3	-159.5	61.6	28.5	-6.9	-7.5	1.2	1.5
	-21	-147.2	8.5	-0.5	-1.1	-23.4	18.7	5.2	10.7	-1.5	1.2	-0.4
	143.4	-128.6	-0.5	-6.8	46.5	38.9	-60.2	-53.8	7.6	-1	-1.6	0.8
	-8.6	-28.3	0	-0.8	4.1	11	1.9	-18	0.3	1	-0.8	0.2
	-12.9	-6.9	-0.4	1.6	7.7	7.3	10.3	19	1.1	1	-0.9	-0.5
8th	39	9.4	3	2.8	-41	-27	-82.3	-6.4	3.6	3.5	0.5	0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
35/33						
MEAN	-2198.7	-1024.9	-141.7	0	247.6	-149
RMS	257.3	166	126.6	0	199.5	359.6
1/2 P-P	507.8	310.7	233.6	0	367.1	690.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	15.4	-188.1	17.5	-151	0	91.3
2nd	97.2	-280.5	67.9	-159.9	0	-29.8
3rd	-46.6	-0.9	-21.5	-4.8	0	24.2
4th	23.5	-9.7	15.9	-6.3	0	-15.2
5th	-43.4	13	-14.1	4.1	0	61.2
6th	3.4	-15.5	4.5	-7.9	0	0.1
7th	-0.3	-2.9	3.3	-3	0	4.6
8th	-5.3	-41.1	-1.4	-8.2	0	0.9
						27.1
						-83.7
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
35/33						
MEAN	-393.7	-539.7	-389.2	-7622.7	-2551.7	-430.9
RMS	376.3	318.4	170.6	804.4	473.9	151
1/2 P-P	711.4	619.8	441.6	1603.7	1239	248.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	188.3	-375.5	140.2	-279.2	106.9	-395.8
2nd	-180	209.2	-151.7	160.4	292	83.9
3rd	-9	118.8	-37.6	150.4	-54.5	-5.6
4th	8.6	9.4	17	7.8	40	188.6
5th	-106	-1.6	-118.3	-15.8	-13.1	-154
6th	18.4	-37.7	7.8	-33.4	19.4	-12.3
7th	6.8	-10.1	10.1	-6.8	-13.2	12.4
8th	-5.5	25.5	-2.6	108.6	-77.6	122.8
						73
						0.8
						2.6

RUN/POINT 35/33	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2312.9	339.4	-5221.4	-1497.7	-2269.1	-473.8	-5650.4	-26.2	-2571.5	14.1	-998.7	-176.3
RMS	409.6	376.8	1092.8	-29.7	445.2	44.3	1302.4	318.7	1080.7	246	762	77.2
1/2 P-P	632	261.6	1927.9	-48.7	721.3	28.1	2186.4	67.2	1806.9	51.3	1354.6	4.5
HARMONIC		15.3		-5.5		8.6		8.6		25		110.7
	1st	339.4	376.8	-1497.7	-473.8	300.2	1798.2	-26.2	1495	14.1	1026.6	-176.3
	2nd	-34.5	261.6	-29.7	44.3	-268.6	42.3	318.7	32.3	246	62.4	77.2
	3rd	-9.5	15.3	-48.7	28.1	8.6	-4.4	67.2	-1.9	51.3	28.9	4.5
	4th	26.5	-5.6	-26.2	29.6	-10.7	3.5	-4.9	25	-32.4	110.7	-165.3
	5th	0.1	-47.4	9.8	54.6	-16.7	-44.4	25	-16.7	12.9	98.8	-14.3
	6th	-7.1	14.6	15.4	-9.8	-11.3	-3.2	12.3	0.9	7.5	-2.9	-4.1
	7th	0.2	2.3	-15.4	-10.9	0.6	-14.4	-5.7	-12.4	-8.8	-10.5	-13.4
	8th	-13.8	-54.7	-118.6	-66.6	-35.2	-133.5	-71.6	-111	-69.6	-69.5	-39.4
RUN/POINT 35/33	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1634.9	-242.5	-421.2	-106.8	0	0	-7015.9	1381	-483.2	-106.6	22.2	-21.4
RMS	595.7	-6.8	173.6	-21.2	0	0	1010.5	-285.3	153.6	-41.4	-6.4	4
1/2 P-P	1263.7	20.4	281.5	11.3	0	0	1778.5	35.9	252	-12.9	-0.5	-0.7
HARMONIC		-230.3		9.3		0		16.9		0.8		-0.4
	1st	723.4	-242.5	-106.8	214	0	-34.7	-56.1	5.5	2.7	-2.1	1.4
	2nd	74.2	-6.8	-21.2	48.1	0	22.2	-2.4	-0.2	3.3	-0.5	-0.5
	3rd	35.4	-20.4	11.3	3.5	0	55.5	-11.2	0.3	1.5	-0.1	0.6
	4th	134.3	-230.3	9.3	0.6	0	-7.1	-72.2	2.1	5.2	-0.2	0.2
	5th	160.2	-49.7	3.1	-5.2	0	-20.5					
	6th	11.9	-21.5	0.9	-3	0	7					
	7th	4.3	4.7	-1.7	2.1	0	-16.5					
	8th	53.1	26.4	1.6	2.7	0	-122.2					

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-1025.2		-298		156.8		0		350.2		-42.8	
RMS	171.6		101.2		103		0		209.5		379.1	
1/2 P-P	333.7		211.8		208.7		0		455.4		725.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
1st	13.7	-6.1	10.4	-41.5	50.4	-122.5	0	0	82.8	-247.2	153.7	-429.8
2nd	32.5	-199.9	27.2	-112.6	3.2	-18.4	0	0	-38.3	62.8	-161.4	147.9
3rd	50.8	-88.5	33	-52.4	7.7	-16.7	0	0	-24.3	30.1	-89.1	131.1
4th	28.8	11.6	17.7	3.2	5.2	-10.1	0	0	-21.1	-14.1	-27.6	13.9
5th	-48.5	-36.8	-15.9	-14.8	20.5	15.6	0	0	60.5	54.2	3.4	4.6
6th	12.4	-11.6	6.4	-6.2	-2.4	-0.2	0	0	-16.8	12.2	12.7	3.2
7th	-4	-0.8	3	-1.5	12.8	-1.9	0	0	12.5	0.8	-16	-3.2
8th	-4.7	-36.4	-3.8	-8.9	-5.9	30.7	0	0	-4.3	62.3	32.7	-71.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-374		-622.1		-564.2		-6824.4		-2483.2		-463.5	
RMS	416.5		385.9		227.5		1504.3		712.1		149.2	
1/2 P-P	779.8		768.9		527.9		2431.4		1757.5		249	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		2nd		3rd		4th		5th		6th	
1st	141.7	-403.2	122.8	-294.8	-2.7	-74.9	-1992	620.2	-560.1	439.7	113.9	-166.1
2nd	-252.7	157.3	-258.5	115.5	-139.5	42.9	119	283.2	149.1	-89.9	-45.6	38.3
3rd	-80.2	204.1	-97.1	223.2	-98.3	163.3	70.3	-51.1	-99.4	15.8	-13.9	-1.8
4th	10.7	23.3	41.3	40.1	24.4	54.7	-25	48.3	164.9	-544.6	0.8	9.3
5th	-89.2	-120.1	-109.3	-167.2	-44.2	-123.8	93.1	47.2	-221.9	-150.8	-7	-2.6
6th	34.9	-28.3	12	-26.4	-13.7	-25.5	-9	-6.7	8.6	11.1	2.7	-2.7
7th	0.7	-6.9	17.5	-4.2	-0.1	3.7	-15.3	9.1	11.8	-3.6	1.7	0.3
8th	-12.3	19.8	-14.8	93.7	0.8	110	-146.7	-125.1	153.1	121.1	0.7	2.5

RUN/POINT 35/34	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1124.7	4443.6	-1059.4	-4875.9	-1869	-731						
RMS	349.9	1825.1	375.3	2011.5	1680.9	1150.6						
1/2 P-P	675.5	2834.9	698.2	3112.7	2610.8	1991.9						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	147.5	401.5	-502.5	-2494.2	-456.9	114.9	2767.7	-473.8	2318.9	-369.1	1502.5	-453.6
2nd	32.9	175.5	-128.1	-314.6	-20.8	-184.1	151.2	326.8	122.7	258.3	122.3	84.2
3rd	-108.2	-84	-60.3	-60.3	-71.9	105.3	-47.7	68.6	-27.8	59.9	57.1	27.9
4th	29	15.1	-11.2	42	37.6	13	15.3	-11.5	25.7	-60.5	53.2	-313.3
5th	58.4	-50.3	-41.6	77.5	56.3	41.5	-88.8	-36.1	-39.7	-12.5	154.8	104
6th	-17.7	14.9	13.7	-10.1	19.8	-8.8	-21.2	9.1	-11.7	6.4	16	1
7th	-2.5	10	-1.8	15.1	3.5	-0.8	-9.3	19	-9.2	11.4	2.8	-18.5
8th	1.7	-51.4	-150.8	-111.2	-3.2	-32.9	-162.1	-121	-130.1	-118.3	-75.5	-55.9
RUN/POINT 35/34	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1527.8	-454.1	0	-6291.7	0	-523.7	-69					
RMS	889.7	170.7	0	1706.2	153.6	20.9						
1/2 P-P	1779.9	285.2	0	2645.2	253.4	39.3						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1018.3	-468.8	-124.2	197.6	0	0	402.4	2346.3	-167.2	-126.4	21.9	-15.2
2nd	131.6	-14.5	-35.6	43.9	0	0	-72.9	-275.3	41.5	-31.3	-10.7	4.5
3rd	111.2	10.4	18.1	3.5	0	0	60.5	79.4	10.5	-15.4	-1.7	-1.3
4th	41.9	-419.1	3.4	12.3	0	0	-8.5	10.4	3	8.5	-0.4	0.7
5th	262.3	154.6	5.5	0.5	0	0	40.4	-89.1	-0.5	6.3	-2.5	0.5
6th	33.9	-10.2	2.7	-1.7	0	0	28	-0.5	-2.5	1.1	-0.3	0.2
7th	-1.4	-14.3	-0.5	0.1	0	0	-12.2	11.8	-0.6	0.6	-0.5	0
8th	60.1	43.8	-0.8	3.4	0	0	-140.1	-122.3	-0.9	4.1	-0.5	-0.8

RUN/POINT 40/29	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-227.3	-102.7	188.3	-100.1	353.2	-157.5	0	0	422.9	-275.7	135.6	-464.1
RMS	201.7	-176.6	126.8	-99.5	123.7	-11.4	0	0	234.9	68.3	-169.5	141.9
1/2 P-P	437.7	-96.1	253.7	-56.1	282.8	-19.4	0	0	522.3	32.2	-156.3	128.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-82.8	18	24.8	7.8	-13.1	0	0	-24.4	-21.9	-35.1	7
	2nd	-33.7	-176.6	-11.3	-99.5	-10.8	0	0	-35.9	68.3	-169.5	141.9
	3rd	110.7	-96.1	66.1	-56.1	9.8	0	0	-57	32.2	-156.3	128.7
	4th	41	18	24.8	7.8	-13.1	0	0	-24.4	-21.9	-35.1	7
	5th	-22	-69.4	-5.1	-26.3	9.6	0	0	25.3	102.6	9.6	1.1
	6th	18.2	-9.2	8.7	-5.2	-5.4	0	0	-25.5	11.6	19	6.3
	7th	-4.1	4.1	4.7	0.3	16.5	0	0	19	-5.3	-27	0.8
	8th	-3.3	-32.1	-7.1	-8.5	-13.5	0	0	-12.3	55.5	42	-58.9
RUN/POINT 40/29	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-366.8	-444.5	125.5	-327.1	-667.1	-89.2	-6390.7	1601.3	-2408.8	687.7	128.6	-160.5
RMS	471.5	127.9	456.1	83.7	282.1	34	2203.7	318.6	944.8	-89.3	-52.6	38.3
1/2 P-P	972.5	-128.2	935.4	-138.1	634.4	180.2	3544	-51.3	2176.9	-14.3	-14.3	-5.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	128.4	-444.5	125.5	-327.1	-6.8	-2620.6	1601.3	-675.7	687.7	128.6	-160.5
	2nd	-305.3	127.9	-335.3	83.7	-201.1	259.2	318.6	201.9	-89.3	-52.6	38.3
	3rd	-128.2	243.2	-138.1	260.7	-142.6	91.4	-51.3	-161.2	-14.3	-14.3	-5.4
	4th	-1.4	23.6	45.9	49.4	37.8	-44.8	40.7	365.1	-659.5	0.7	13.6
	5th	-23	-195.6	-41	-258.1	12.5	88.1	92.9	-192.8	-296	-4.3	-9.1
	6th	45.7	-25.8	16.5	-22.2	-23.9	-30.9	-7.6	26	5.3	3.9	-2.2
	7th	0.2	-4.2	20.4	-6.3	-3.4	12.4	-5.6	-6.9	5.7	2.2	0.3
	8th	-21.1	17.5	-36.2	80.2	-15.8	-161.9	-176.6	170	169.1	-1.7	4

RUN/POINT 40/29	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325			
	MEAN	-314.3	-3944.3	-259	-4536.3	-1527.6	-536.1							
RMS	354	2516.1	345.4	2651.2	2228	1515								
1/2 P-P	727.5	3912.3	689.9	4194.9	3519.5	2644.9								
HARMONIC	COSINE	234	334.7	-1441.8	-3206.2	-345.4	199.7	3409.6	-1450.8	2882.7	-1181.1	1820.7	SINE	-964.6
	1st	91.9	145.9	-262.1	-359	-88.3	-161.3	266.8	369.6	218.7	299	181.1	98.4	
	2nd	-123.6	-142	-58.9	-85.9	-129.6	117	-97.1	58.3	-64.4	50.4	60.1	34.2	
	3rd	35.6	28.8	-24.5	58.2	44.9	27.1	27	-14.9	50.5	-82.5	138.7	-420.8	
	4th	96.6	-39	-97.5	75.6	41.9	83.2	-102.3	-91.5	-43	-34.9	153.9	219.1	
	5th	-22	8.7	26.5	4.2	21.1	-7.7	-23	-0.2	-15.8	0.8	21	5.1	
	6th	7.2	10.8	29.3	10	4.4	-7.2	33.6	4.1	24.2	0.8	-5.9	-16.1	
	7th	-3.5	-61.4	-182.3	-150.1	1.2	-42.3	-188.9	-176.6	-154.9	-169.6	-85.8	-93.9	
8th														
RUN/POINT 40/29	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1			
	MEAN	-1409.3	-472.5	0	-5897.1	-546.3	-87.8							
	RMS	1182.2	174.8	0	2399.4	160.3	15.5							
1/2 P-P	2331.1	290.2	0	3823.9	268.7	27.3								
HARMONIC	COSINE	1210.9	-835.7	-139.8	192.7	0	0	1352.2	3071.8	-162.9	-144.9	15.2	SINE	14.2
	1st	179.9	-9.4	-39.9	45.4	0	0	-215.2	-316.9	48.5	-27.6	4	-4.3	
	2nd	136.6	30.6	18.4	6	0	0	52.8	102.1	13	-14.8	0.2	0.5	
	3rd	140	-575.7	3.3	15.3	0	0	-4.3	-16.8	4.5	13.4	0.2	0	
	4th	276	350.2	5.3	5.9	0	0	88.5	-67.2	-5.3	4.1	0.1	0.3	
	5th	36	9.5	3.6	-1.6	0	0	19.6	6.1	-4.9	0.9	-0.1	-0.1	
	6th	-32.3	-7	-0.6	-1.1	0	0	18	-14.1	-1	0.8	0.2	0	
	7th	70.9	63.6	-0.8	4.3	0	0	-156	-180.5	-1.7	5.9	0	0.1	
8th														

RUN/POINT 40/30	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	394.5	577.1			515.7	0	482.3	80.1				
RMS	216	120.8			110.6	0	252.1	436.5				
1/2 P-P	507.9	290.5			248.4	0	548.9	889.6				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-85.5	8.8	-29.5	32.7	-134	0	76.7	-281.1	112.6	-492.4		
2nd	-65.9	-134.2	-74.6	-18.4	-2	0	-34.9	65.2	-160.7	123.8		
3rd	177.6	-137.3	-76.8	10.4	-20.4	0	-92.2	52.4	-230.8	158.8		
4th	44.2	27.7	9.5	5.9	-16.5	0	-31.4	-31.3	-38.6	2.6		
5th	-18.9	-85.5	-30.9	4.7	38.6	0	14.7	128.6	12.4	-0.1		
6th	26.3	-5	-3.7	-6.3	-3.8	0	-31.3	4.8	16.5	9.5		
7th	-6.6	0.9	0.4	16.6	1.3	0	20.7	5	-22.3	-11.8		
8th	5.2	-30.1	-8.4	-26.6	24.3	0	-32.4	53	63.6	-53		
RUN/POINT 40/30	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-357.2	-696.7			-755		-5855	-2363.1	-488.7			
RMS	512.9	514.9			328.9		2762.5	1204.1	156.3			
1/2 P-P	1103.6	1062.9			750.8		4362	2655	277.4			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	101.1	-468	-344.8	-13.9	-99.4	2090.9	-781.2	851.8	140.6	-152		
2nd	-332.7	106.8	66.4	-244.3	31.9	302.9	233.9	-99.1	-61.2	37.8		
3rd	-182.3	269.1	276.1	-184.9	183.5	-33.7	-251.4	-45.9	-14.6	-7		
4th	12.1	32.5	74.7	75	78.2	55.1	420.5	-999	0.9	13.2		
5th	3.7	-245.9	-327.7	39.6	-212.3	108.2	-185.8	-350.9	0.5	-13.9		
6th	58	-15.9	-19.5	-28	-32.4	-4.3	9.2	10.3	3.6	-3		
7th	-4.2	-5.8	8.8	-9.4	2.1	-25.7	2.8	24.8	1.1	2.1		
8th	-31.7	16	72.6	-38.5	93.8	-198.6	171.7	192.1	-2.4	3.3		

RUN/POINT 40/30	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	322.7	-3423.4	386.8	-4017	-1062.4	-352.1	1818.3	3242.3			
RMS	358.2	3114.4	340.5	3144.8	2651.7							
1/2 P-P	796	4825	751.1	4973.9	4219.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	1st	124.3	340.9	-3922.2	-320.1	100.5	3938.9	-1971.7	3341	-1623	-1259.3	
	2nd	127.4	100.3	-360.1	-127.7	-114.2	278.1	392.1	225.3	321.4	112	
	3rd	-176	-214.6	-47.9	-132.4	169.9	-145.8	49.4	-101.8	48.3	57.2	
	4th	45	34	-17.2	80.4	33.1	37.7	-28.2	66.4	-132.9	-645.8	
	5th	108.4	-31.2	-99.2	93.5	101.3	-90.5	-126.2	-29.3	-49.5	188.1	
	6th	-29.7	2.9	26.2	12.7	1.4	-15.6	-20	-7.3	-9.4	167.6	
	7th	2.7	11.6	12.3	-3.6	8.1	21.1	-1.1	15.3	-6	29.2	
8th	3.7	-60.8	-180.5	-178.1	4.1	-42.1	-192.8	-160.3	-186.7	-4.9	-12.1	
											-106.8	
RUN/POINT 40/30	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.400$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1339.5	-483.5	0	-5391.9	-561.2	-83.5					
RMS	1456.9	175.8	0	3009	165.5	12.6						
1/2 P-P	2861.6	297.5	0	4739.9	282.5	22.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	1st	1366.8	-1065.6	-150.1	184.8	0	1834.9	3801.4	-158.1	-158.7	9.5	13.1
	2nd	194.2	2.5	-43.4	46.7	0	-257.1	-315	54.5	-27	4.2	-4.9
	3rd	206.5	70.5	21.6	5.5	0	40.8	145.2	14.5	-15.6	0.2	0.9
	4th	189.8	-891.7	1	18.6	0	0.3	-17.9	4.7	14.5	0.2	0
	5th	298.6	443.3	2.8	9.3	0	97.3	-63.3	-9.5	2.7	0.3	0.2
	6th	42.8	43	4.3	-0.2	0	9.1	24.1	-4	0.5	0.2	-0.1
	7th	-25.2	-3.5	1.1	-1.5	0	17.2	-28.2	-2.1	0.2	0.2	0
8th	77.7	70.6	-1.7	4.4	0	-156	-205.3	-2.5	6.2	0.3	0	

RUN/POINT 40/31	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	MEAN	1088.6	1008.7	692.5	0	543.8	146.9	RMS	271.2	161.8	317.3	561.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-126.1	-103.2	-80.1	-97.3	25.4	-172.6	0	70.3	-307.5	94.8	-521.4
2nd	-124.2	-109	-60.2	-31.6	2.6	0	0	0	-36.3	61.3	-183.6	111.1
3rd	204.1	-187.6	118.8	10.4	-25.5	0	0	0	-109.2	69.6	-271	186.2
4th	49	34.6	28.4	11.7	-19	0	0	0	-35.9	-40.9	-45.9	1.5
5th	-3.8	-93.3	-0.1	-34.1	39.3	0	0	0	-10	136.4	15.7	-4.6
6th	28	-4.4	12.1	-10.4	-8.4	0	0	0	-40	-3.6	24.3	20.6
7th	-6.1	9	3.1	15.6	-8.5	0	0	0	18.9	-13.1	-27.6	6.5
8th	-10.6	-35.7	-13	-18	29.8	0	0	0	-11.7	63.3	48.8	-71.5
RUN/POINT 40/31	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	MEAN	-338.1	-728.5	-842.4	-5360.4	-2321.3	-493.6	RMS	560.5	572.5	1201.1	5784.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	91.5	-484.8	119.6	-354.3	-12.7	-102.5	4067.8	-918.9	1152.5	158.6	-148.3
2nd	-405	74.9	-483.3	35.3	-318.9	21.3	3273.4	478.2	313.6	-102.7	-56.5	41.6
3rd	-205.5	306.8	-207	298.1	-224.9	183.5	-16.6	200.7	-339.6	-48.9	-16	0.8
4th	1.2	43	75.3	101.9	77.1	91.7	47.9	-19.1	381.7	-1201.4	10.9	23.9
5th	53.6	-256.2	40.2	-340.7	94.3	-205.4	122.6	83.6	-173.6	-384.6	2.4	-18.3
6th	66.1	-7.5	30.1	-17.5	-36.1	-30.6	-8.1	-7.7	-1.8	21.3	7.8	-4.1
7th	2.3	-3.6	17.2	-7.3	-19.4	-30	-32.2	-24.9	37.4	26	0.2	5.2
8th	-28.8	19.9	-38.2	87.8	-9.1	110.4	-187.6	-239.1	255.9	185.2	2	3.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-941.7		-274.2		131.5		276.7		270.3		-216.6	
RMS	628.5		359.6		160.9		301.4		353.4		624	
1/2 P-P	1183.2		660.4		334.7		587.4		673.3		1182.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-653.7	71.2	-382.6	-25.3	-66.2	-169.9	122.1	-325	173.8	-375.2	401	-632.2
2nd	124.1	-557.3	83.8	-313.5	14.4	-54.1	-28.1	118.2	-42.8	172.3	-224.9	360
3rd	-94.9	64.2	-48.6	26.9	4.7	-15.3	45.2	-46	58.1	-47.4	57.2	68.9
4th	2	8.7	8	7.3	10.6	4.6	10	-4.3	7.6	-6.8	-32.9	10.3
5th	-85.1	-2.3	-28.9	-0.1	40.5	7.5	104.8	9.1	123.3	7.4	-46.9	8.1
6th	0.1	-19.4	1	-7.4	0.4	6.3	0.7	15.4	0.8	16.9	-23.9	9.4
7th	2.3	-0.2	4.4	0	7.3	-1.1	8.5	-2.1	7.8	-1.6	-22.4	14.5
8th	28.2	-73.3	-0.4	-11.7	-49.5	69.6	-81.7	129.5	-69.5	129.1	128.7	-114.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-531.4		-701.9		-587.9		-8423		-2666.8		-435.3	
RMS	589.2		493.3		352.7		1034.8		696.9		219.2	
1/2 P-P	1012.6		1041.5		937.3		2131.6		1675.5		339.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	368.1	-582.4	211.1	-427.7	-37.4	-117.1	-1298.7	-250.3	-747.2	311.6	155.1	-248.6
2nd	-182.6	314.1	-145.7	233.9	-81.4	84.5	3.7	522	180.7	-109.2	-60.6	63.9
3rd	-5.8	185.8	-34.7	232	-24.8	185.2	59.4	-99.6	61	39.6	32	-4.6
4th	-17.7	64.4	-54.5	112.9	-80.4	130.2	-33.2	-16.9	299.6	-18.2	-16	20.8
5th	-171.8	-25	-181	-3.7	-137.4	32.9	126.4	41.5	-259.8	-167.5	-12.4	-1.9
6th	37.9	-59.7	71.2	-63.5	72	-30	11.5	24.6	-1.3	-52.6	8.8	-12.6
7th	28.7	-31.9	7.8	-47.9	-10.9	-36.8	-22.6	-26.6	24.4	14.7	7.9	-1.1
8th	-20.7	16.4	-132.7	193.1	-186.2	230.6	-63.7	-164.6	74.3	136.5	-1.7	7.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1489.7	-6167.2	-1447.5	-6516.5	-3279	-1421.4						
RMS	455.8	1403.9	478.6	1673.6	1419	1021.3						
1/2 P-P	974.1	2547.9	970.9	2989.9	2516.2	1993.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	128.4	-2	795.6	-1694	79.6	2044.8	942.6	1750.8	811.5	1371.8	205.2	
2nd	-135.1	578.3	77.1	-566.3	-609.8	-87.5	628.3	-57.3	468.9	74.7	144.3	
3rd	5.7	87.8	-70.3	-26.3	-5.4	-19.8	100.4	-10.6	64.8	0.1	-43.5	
4th	-4.8	11.4	52.3	19.8	2.2	6	1.4	-13.2	0.2	-113.5	-22.7	
5th	-69.2	-61.2	63.5	64.1	-88.1	-52.7	84.8	-15.5	41.8	170.5	-98.9	
6th	-13.7	6.9	19.4	-18	-11.5	9.1	15.8	8.4	6.5	14	-24.2	
7th	4.4	-4.8	-39.4	26.8	-2.6	-11.2	41.2	-16.8	26.5	-15.9	-22.9	
8th	19.9	-99.9	-62.4	-109.7	-62.1	-52.6	-121.3	-38.2	-104.1	-7.8	-34.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1856.3	-412.1	-1305.6	-7941	-475.3	-46.1						
RMS	846.9	241.9	488.8	1415.9	215.3	26.1						
1/2 P-P	1943.2	371.3	891.7	2602.7	346	46.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1081.7	-63.5	-154.2	287.8	41.7	177.5	1567.9	-247.5	-153.1	25.6	-21.6	
2nd	119	-39.7	-47.2	72.2	-184.4	593.3	-532.6	49.6	-57.6	-7.2	5.7	
3rd	-10.3	-64.7	-31.5	14	-27.8	-143.2	59.8	8.3	22.1	8.3	-0.4	
4th	-153.2	-24.2	-13.1	35	-20.4	0.3	-26.7	-10.7	32.9	-4.4	5.5	
5th	230.8	-180	9.3	0.3	95.8	51.6	-85.3	-2.9	3.4	-3.8	-1.6	
6th	23.9	-42.9	2.2	-8.6	-3.2	8.8	-17.7	-3.5	9.1	0.3	-0.8	
7th	0.6	-44.2	-6.5	1.7	1.9	3.7	8.6	-0.1	4.9	-0.1	0.7	
8th	27.9	67.7	1	6.5	-7.8	-86.5	-106.4	1	10.4	-1.6	0.9	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-1433.7	-579.4		1.8		213.4		215.2		215.2		-271.4
RMS	585.1	330.9		158.2		304.9		358.1		358.1		623.9
1/2 P-P	1107.4	638.4		372.9		559.4		656		656		1202.4
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-510.2	71.1	-292.3	-27.6	-29.5	-168.5	137	-323.7	185.7	-373.8	403.8	-619.2
2nd	189.4	-577	123.1	-323.7	28.9	-57.7	-26.8	117.7	-45.2	171.9	-224	360.3
3rd	-131.4	19.8	-68.2	1.8	0.9	-15.4	55.1	-26.3	73.3	-20.2	101.4	104.5
4th	-21.8	1.5	-5.4	2.4	7.8	5.8	18.1	1.5	20.5	0.7	-19.3	19.7
5th	-60.8	67.3	-18.1	28	39.1	-17.6	91.5	-64	105.7	-78.3	-46.9	5.9
6th	8.1	-6.4	4.8	-1.3	0.5	2.9	-2.2	4.9	-3.4	5.2	-22.4	5.4
7th	3.7	4	4.5	2	6.5	-2.5	7.2	-6.1	6.5	-6.2	-22.1	15.8
8th	26.7	-74.8	1.5	-9.7	-41.8	74.9	-69.5	136.4	-58.1	134.9	113.6	-129.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-531.1	-665.1		-512.8		-8597.5		-2669.3		-420.3		
RMS	569.9	467.7		334.4		1072.6		622.9		212		
1/2 P-P	1097.1	966.7		813		2021		1374.7		330.2		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	359.2	-545.8	206.4	-380.8	-21.8	-87	-1110.2	-825.3	-694.7	172.7	140.9	-244.9
2nd	-138.3	320.5	-86.4	231.9	-29.1	71.2	-100	497.8	157.2	-123.1	-52.1	62.9
3rd	63.2	195.4	49.4	231.8	43.2	174.4	50	-94.6	44.7	80.7	34.5	-2.4
4th	-37.2	41.7	-83.1	80.8	-95.4	102.8	-0.4	-6.1	-137.5	-6.7	-17.2	32.6
5th	-140.6	124.9	-140.2	155.6	-110.8	125.1	84.6	-71.4	-218.8	87.5	-10.7	0.6
6th	33.8	-34.4	64	-25.9	60.5	-5.8	5.1	23.8	13.6	-35.1	4.3	-10.6
7th	31.7	-30.8	11	-45.8	-6.6	-32.2	-33.3	-3.2	32.2	-4.1	7	-1.9
8th	-13.8	27.9	-106.8	199.8	-161.2	230.7	-66.9	-106.1	74.2	84.7	0.1	7.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2614.5	-6324.6	-2600.3	-6639.8	-3440.1	-1409.8						
RMS	528.8	1001.1	560.5	1242.2	1053.2	716.3						
1/2 P-P	973.2	1724.4	1043.7	2221.7	1873.9	1460.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	224.1	1046	-746	207	1110.3	1175.1	956.1	1018.4	875.7	405.9		
2nd	-178.1	136.4	-489.7	-657.6	-165.2	570.3	-121.7	424.8	2	151.3		
3rd	149.3	-101.1	-0.8	-144.9	-12	128.4	-5.2	84.2	-5.7	-24.8		
4th	-34	70.2	21.6	-24.4	-5.9	25.6	-19	36.2	-91.7	79		
5th	-77.6	94.6	29.6	-90	-6.9	106.7	2.3	56.1	87.8	-136.6		
6th	-8.8	18.2	-15.4	-12.4	8.8	7	6.7	-1.9	4.6	-20.4		
7th	3.6	25.5	11.6	-1.2	45	2.9	30.4	3.1	-13.6	-5.5		
8th	-9.6	-33.5	-61.5	-73.8	-31.6	-73.2	-23.5	-59.7	-6.3	-21.8		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1777.3	-376.7	-2419.4	-8052.2					-430.6	-46.5		
RMS	600.8	242	576.8	1090.7					213.4	24.3		
1/2 P-P	1253.4	366.5	1141.1	1926.7					331.4	43.6		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	755.4	132.8	301.2	237.4	-1247.1	654.3	-260.3	-125.7	19.1	-23.8		
2nd	52.5	-8.5	73	647.6	210.3	-480.4	24.3	-60	-2.2	4.8		
3rd	-27.1	-50.3	22.6	-244.6	124.8	40.3	12.3	33.3	11	0.1		
4th	-103	105.9	44.6	-25	0.8	-19.3	13.1	40.2	-0.7	8.4		
5th	101.7	-235.7	-1.9	-5.8	-124	-30.2	-0.6	5	-2.9	-0.5		
6th	8.1	-29.7	-5.9	14.5	-21.3	-19.3	0.7	7.3	0	-0.9		
7th	-34.4	-2.5	3.4	8	33.8	-11.3	4.5	4.3	0.4	-0.9		
8th	19.8	51	6.2	-82	-30.5	-64.6	3.8	8.7	-0.6	1.6		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	-2536.4	-1263.9	-286.2	84.8	107.2	-378				
RMS	649.4	372.3	165	296.9	349.7	596.4				
1/2 P-P	1296.8	735.8	361.8	546.8	668.5	1171.1				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-534.9	-35.4	-303	-91.4	-185.3	132.1	-312	181.4	391.3	-556
2nd	232.4	-629.5	151.5	-354.8	-67.5	-10.1	118.8	-28	-174.9	390.1
3rd	-224.2	151.6	-122.2	74	-2.7	85.3	-53.3	114.8	197.7	17.3
4th	-54.5	-16.9	-23.2	-6.9	9.8	29.5	15.1	33.3	-1.7	40.5
5th	-28.7	79.7	-5.9	33.2	-22	59.3	-79.1	64.5	-42.5	8.6
6th	3.9	-10.8	5	-2	8.1	7.8	13	6	-20.5	-3.7
7th	7.6	5.4	6.2	3.8	-0.5	2.9	-6.3	1.4	-18.3	17.7
8th	7.5	-75.1	0	-9.3	79.1	-31	141.8	-21.9	68.7	-148.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	-509.4	-552.4	-323.2	-8734.6	-2643.9	-382.1				
RMS	531.3	443.8	302.1	919.3	451	208.4				
1/2 P-P	1053.7	982	720.2	1680.7	1052.1	317.3				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	319.1	-495.8	189.7	-343.6	11	-316.4	-1115.6	5	111.5	-256.1
2nd	-44.9	341.3	6.6	234.6	33.7	-162	458.1	-104	-27.4	64.3
3rd	157.5	151.1	159.2	217.4	130.8	37.7	-117.7	62	43.7	-10.1
4th	-61.1	-26.3	-125	-6.6	-120.2	23.3	0.8	-169.4	7.1	39
5th	-76.9	172.7	-62.1	189.9	-63.9	37.7	-110.8	178.3	-6.8	5.2
6th	14.1	-33.1	61.2	-7.3	68.6	-3.9	39.6	16.8	-0.2	-9
7th	29.9	-29.2	12.2	-39.4	7.6	23.1	-5.5	-17.3	2.8	-4.7
8th	-0.6	40.6	-32.2	198.4	-78.9	-33.5	-58.3	41.4	0.7	4.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3885.4		-6302.6		-3894.5		-6581.8		-3447.2		-1302	
RMS	689.9		816.4		684		923.8		763.5		439.2	
1/2 P-P	1220.3		1551		1249.7		1706.5		1376.4		928.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	96.2	-308.7	973	170.6	5.5	74.4	1102.3	143.9	943.7	362.3	388.2	
2nd	-169.3	788.7	127.6	-510.4	197.9	-826	598.9	-127.1	443.1	-23.4	153.1	
3rd	324.2	257.4	-139.4	17.7	293.9	-302.8	170.7	0.2	110.7	-13.9	-30	
4th	-79.5	-37.9	88.7	45.8	-81.7	-49.6	28.4	7.8	42	-49.9	94.5	
5th	-94.8	13.5	141.1	15.4	10	-115.7	139.6	13.9	71.9	103.7	-197.6	
6th	-11.4	7.9	11.3	-34.3	-9.7	-5.6	12.7	-9.2	4.2	6.5	-22.8	
7th	-6.1	-14	-5.5	-9.7	-8.3	2	-19.9	-14.9	-17.7	-25.7	3.2	
8th	-35.6	-38.4	-33.5	-12.2	-32.1	-31.9	-11.6	-23.8	-10.3	-3.3	0.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1673.2		-350.7		-3659.8		-7969.8		-391.1		-52.1	
RMS	435.8		272.1		782.7		909.4		239.2		30	
1/2 P-P	955.2		408.7		1457.6		1659		372.7		57.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	415.1	149.7	-121.9	335.5	85.6	473.5	-1097.9	-227	-293	-8	-38.1	
2nd	23.7	-7.7	-4.7	104.8	-230.4	815.9	214.5	-514.5	3.3	0.5	6.7	
3rd	-26.3	-71.8	-42.6	61.3	-341.1	-347.7	166.5	39.5	38.5	9	-5.2	
4th	-54	132.5	28	55.7	-103.2	-49.7	19.3	-19.8	37.1	2.7	10.7	
5th	105.4	-337.6	4	-8.5	119.3	-19.4	-160.6	-27.7	6	-1.5	1.8	
6th	25.4	-40	-4.3	0.1	10.3	14.8	-7.1	9.9	3.3	-1.3	-1.1	
7th	1.9	16.9	-1.8	1.8	4.9	10.4	-15.4	-32.6	2.8	0	-1.8	
8th	25.7	12.2	3.3	2.7	-65.9	-19.1	-34.2	-6.4	6.9	0.5	0.1	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-479.1	-436.1	-108	-8656.2	-2613.7	-348.8		
RMS	619.2	522.8	322.2	915.9	375.5	232.3		
1/2 P-P	1275.6	1091.8	767.8	1695.7	885.9	365.7		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
	1st	319.1	-521.3	200.8	-364	53.9	-77.9	-1038.6
	2nd	98.5	453.9	142.3	307.6	106.1	71.8	-153.4
	3rd	281.3	37.1	303.1	132.5	254.7	118.7	39
	4th	-89.4	-85.3	-177.5	-80.7	-151.3	1	61.5
	5th	-49.5	261	-34.4	264.8	-67.5	169.3	24
	6th	-11.6	-45.6	45.7	-12.2	70.8	-20.7	39.1
	7th	39.2	-27.9	15.5	-17.9	18.9	26.1	-15
8th	35.8	38.8	111	126.9	64.7	158.4	-37.5	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	3260.2		753.2		3441.8		51.9		2552.5		1094.7	
RMS	659.8		7844.6		655.6		6843.5		5819.7		4001.4	
1/2 P-P	1254.9		11525.5		1265.9		10042.7		8618.6		6880.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-70.5	594.1	-8912.5	-466.5	-312	6869.9	-6680.3	5915.5	-5609.4	3715.5	-3881.5	
2nd	453.4	229.2	-995.9	-485.7	-309.5	985.1	835.8	775.9	691.2	544.8	325.1	
3rd	-281.9	-386.4	-50.8	-337.1	291.7	-119.7	119.5	-39.8	140.2	402.2	210.3	
4th	27.5	60.8	127.9	39.4	42.1	142.2	-17.3	95.6	-294.1	-125.3	-1548.3	
5th	111.8	37.5	-58.7	-16.3	71	-159.8	-88.6	-102	-27.3	83.4	254.5	
6th	-24.7	-8.6	-3.9	24.7	12.2	6.2	-7.1	5.5	4.5	-7	59	
7th	-5.5	7.3	-50.6	4.1	3.4	-14	16	-14.8	1.8	-10.9	-35.2	
8th	22.1	-43.6	-74	15	-33.5	-93.9	-211	-66.9	-193.4	-21	-115.1	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-874.3		-477.9		3430.7		-1187.5		-591.5		-39.7	
RMS	3253.7		284		563.1		7654.9		261		28.3	
1/2 P-P	6057.9		443.3		1042.1		11324.3		419.8		52.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2480.5	-3043.9	-301.7	222.4	159.3	-460.2	8521.5	-175.1	-301.8	15.2	27.3	
2nd	450	134.5	-42	128	388	240.3	-848.3	73.3	-84.8	-18.8	14.2	
3rd	640.3	214.8	8.3	-12.8	276.7	310.8	297	-3	5.3	4.3	-2.3	
4th	-376.6	-2161.4	1.2	45.2	37.4	36.3	42.2	5.4	37.9	-0.5	3.6	
5th	196	384.3	-11.1	0.2	-76.9	0.9	-2.2	-6.4	-12.3	-1.9	1.1	
6th	-2	57.4	2.9	0.9	8.4	-6.3	22.3	-0.6	2.8	-0.4	-0.6	
7th	0.8	-32.7	3.4	-0.2	2.3	-4.5	25.5	-1.3	-3.1	0.1	0.5	
8th	46.7	72	-4.3	3.9	17.6	-47.3	-213.7	-6.5	4.8	1.7	-1.9	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb						
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$								
MEAN	-305.3	-814.8	-1075.9	-1274.2	-2087.2	-470.6							
RMS	735.3	725.2	490.1	7374.6	2712.2	268.5							
1/2 P-P	1420.9	1480	1281.8	10856.2	5437.8	429.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	275.7	-664.9	187.8	-559.4	-72.5	-252.7	-7460.6	7157.5	-1781.1	2312	295.9	-200.9
	2nd	-526	5.6	-609.6	-24.2	-452	-30.9	1050.7	726.1	472.8	47.1	-49.4	105.2
	3rd	-306.2	353	-341.3	289.5	-297.1	153.7	317.4	-51	-579.6	-154	-7.3	16.3
	4th	10.7	110.3	87.1	197.3	73.2	142.8	40.1	97.4	164.7	-2312.5	6.3	41.5
	5th	148.9	-158.4	176.6	-185.9	179.9	-78.1	65.9	83.3	-53.3	-310.4	18.3	-2.6
	6th	50.7	36.7	40	-23.1	4.2	-40.6	-6.8	13	-4	21.5	2.2	0.1
	7th	2	-5.4	-12.9	23.9	-34	-14.6	-18.9	-11.3	45.8	15.2	-2.4	1.4
	8th	-21.5	-6.2	-85.1	57.8	-85.7	84.2	-66.3	-217.6	88.2	213.2	-2.9	2.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1794.8		-910.4		1919.2		-1562.2		1112.2		540.5	
RMS	385.9		4932.8		401		4702.5		4001.5		2798.6	
1/2 P-P	794.5		7432.4		815.5		7205.6		6148.8		4921	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-28	160.7	-5621.4	-71.1	-180.3	5165.4	-4063.4	597	4443.6	-3400.5	2827.6	-2470
2nd	315.2	169.6	-743	-327.1	-237.3	732.9	-0.1	-133.9	586.3	485.5	419.6	205.3
3rd	-237.6	-272.3	-20.3	-227.2	239.4	-210.8	36.3	43.9	-192.6	19.2	192.6	73.2
4th	15.1	46.2	85	127.7	30.2	76.6	-31.4	-23.2	-221.5	-126.1	-1090.8	184.4
5th	74.5	-2.9	-51.9	30.8	55.5	-51.7	-7.7	10.9	4.8	93.9	-3	35.8
6th	-20.2	-7.4	-18.8	0.1	8.8	14.4	-0.1	44	2.4	-9.4	-21.5	-103.4
7th	-0.8	10.5	-9.7	20.1	4	-0.1	-183.4	-100.2	31.1	-172	-50.5	-103.4
8th	16.6	-39.1	-134	-164.9	14.8	-26.4	-124.7	-100.2	-172	-50.5	-103.4	-103.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1107.9		-508.9		2015.1		-2806.6		-595.2		-70.2	
RMS	2284.6		235.6		343.4		4566		222.9		19.8	
1/2 P-P	4518.8		385.8		682.7		6984.2		371.2		40.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1920.4	-1993.1	-232.8	210.7	176.7	43.3	3871.6	5084	-178	-240.8	18.5	2.5
2nd	352.7	57.9	-56	88.5	248.3	187.6	-655.4	-537	79	-49	-18.2	8
3rd	358	76.9	9.6	2.5	238.3	205	-14.3	229.7	11.6	-1.4	2	-2.4
4th	-299.4	-1501	-3.8	32.4	20.9	26.8	83.9	10.4	-3.9	25.2	-0.9	3.5
5th	157	254.9	-10.4	3.9	-39.4	16.5	34.4	-45.7	-4.8	-10.6	-1	-0.3
6th	-5.5	28	2.2	-0.5	-22.5	-7.3	-13.5	6.8	-2	2.1	0	-0.5
7th	-20.1	-40	2.5	0	-0.6	-4.3	31.2	39.4	-0.7	-1.1	-1	1.1
8th	48.4	63	-2.1	4	12.6	-35.5	-109	-173.9	-3.4	4.8	0.4	-1.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1968.1		1555.4		911.2		772.4		641.3		286.8	
RMS	495.9		285.2		109.6		228.4		294.3		554.7	
1/2 P-P	1003.3		590.6		251.4		495.9		588.4		1099.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-439.6	234.6	-271.6	103.2	-20.3	-118	-273.4	96.1	142.5	-345.8	224.7	-627.5
2nd	-300.6	-224.9	-172	-125.5	-71.1	-4.3	71	-21	-20.5	93.8	-173.1	128.2
3rd	217.3	-220.7	127.1	-123.3	12.4	-31.7	32.8	-60.2	-92.5	66.2	-283	206.5
4th	17.2	26.2	11	8.5	2.7	-17.1	-41	-2.7	-8.9	-46.4	-34.9	-12.3
5th	4.7	-47.5	2.8	-16.7	-2.7	21.4	51.4	-9	-9	63.2	-10.5	3.6
6th	19.9	9.7	9.9	5.1	-3	-3.3	-15	-15.1	-20.5	-18.3	5.9	18.1
7th	-8.4	-1	-0.9	1	9.7	3.6	3.8	16.6	16	3.8	-19.2	-5.8
8th	4.6	-26.3	-5.5	-10.1	-21.3	14	31.1	-34.2	-28.2	33.4	48.1	-29.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-343.1		-767.7		-941.5		-3045.2		-2265.5		-501.5	
RMS	629.5		578.8		360.9		4373.9		1891.8		221.6	
1/2 P-P	1184.2		1152.7		902.7		6625.3		3888.9		384	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	271.7	-572.7	190.2	-455.3	-48.8	-177.9	4219.3	-4415.2	-1211.5	1530.2	228.2	-185.9
2nd	-438.7	27.6	-468.6	7.6	-323.7	1	464.4	769.6	364	-3.3	-69.6	68.9
3rd	-242.2	327.1	-270.7	277.5	-236.3	158.9	20.2	251.8	-434.1	-14.3	-3.3	4.4
4th	-25.9	63.6	14.1	120.8	4.2	81.4	65.3	68.1	-139.2	-1669.3	3.6	37.2
5th	54.3	-133.9	65.3	-156.7	82.8	-71.2	45.9	38.6	-89	-263.5	17.9	-6
6th	36.9	25.9	27	-19.3	-4.2	-32.1	-14.2	14.8	-3.3	39.7	2.2	-1.6
7th	7	-5.4	10.1	8.1	-2.9	-21.1	15.1	24.3	2	-13.9	-1.2	-0.2
8th	-14.7	-1.8	-53.3	50	-51.8	68.1	-173.1	-117.3	128.9	159.1	-0.7	3.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	286.8	-2288.1	343.6	-2770	7.9	109.3						
RMS	507.7	3784.4	472.5	3679.7	3095.8	2133						
1/2 P-P	955.8	5816	909.1	5663.7	4757.2	3646.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	452.8	427.1	-2898.6	-4427	-442.4	334.3	4292.8	-2816.3	3652.7	-2312.5	2348.1	-1729
2nd	186.8	177.6	-501.7	-551.9	-187.7	-233.8	457.9	651.6	363.6	524.8	265.5	230.7
3rd	-186.2	-125.2	-53.9	-123.2	-92.1	182.7	-115.8	45.9	-63.7	35.4	148.7	-2.9
4th	23.7	30.1	64.6	42.6	25.6	18.5	40.7	-32.7	13.9	-132.7	-127	-598.1
5th	63.1	7.2	-58.6	19.1	3.7	43.9	-34.1	-47.1	-14.9	-6.4	43.9	170.6
6th	-19.6	-2.4	2	-3	18.2	1.2	11	15.5	13.3	16	2.6	18.8
7th	2.5	13.3	-6.7	30.5	7.7	-2.5	21	48.8	10.1	36.7	-11.3	-13.1
8th	10.9	-27.5	-106.3	-88.2	7.4	-16.6	-115.1	-103.7	-95.9	-96.5	-43.1	-60.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1284	-502.5	516.4	-4130.8	-573.5	-96.3						
RMS	1658.2	215	326.8	3412.5	199.6	29.2						
1/2 P-P	3136.1	358.1	607.1	5232.7	343.4	54.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1603.7	-1398	-192.2	215.6	-291.7	-176.8	2747.8	3899.8	-181.4	-198.3	31.9	-17.5
2nd	223.9	78.5	-55.5	70.5	115.6	202.4	-426.4	-513.3	70.4	-40	-17	7.1
3rd	240.4	-33	10.5	7.4	181.4	54.9	49.6	160.8	15	-8	-0.4	-3.7
4th	-237.6	-814	-2.2	25.4	26.3	9.5	46.1	-17.1	-1.2	21.8	-2.4	2.9
5th	71.7	247.2	-1.3	5.9	-33	4.8	52.1	-30.5	-6.5	-3.7	-2.4	-0.3
6th	3.5	7	3.3	-0.3	-22.1	-0.1	1.1	-3.7	-3.7	1.2	0.6	-0.4
7th	-19.6	-39.8	0.3	-0.7	-4	-7.9	21.6	23.7	-1	0	-0.1	1.1
8th	39.4	34.8	-0.9	1.9	5.5	-29.2	-91.2	-94.7	-2.2	3.1	0.4	-1.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	433.7	603.8	525.6	606.1	513.4	154.4						
RMS	301	191.7	164.2	230.8	276.5	484.4						
1/2 P-P	605.6	385.9	297	478.2	527.7	934.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-108.8	-236.9	-62	-186.9	-216.9	117.1	-283	149.4	-331.1	238.4	-549	
2nd	-137	-230.8	-72	-127.1	-8.9	-11.4	67.8	-19.4	92.2	-165.1	139.9	
3rd	87.6	-162.4	54.7	-91.2	-21.8	-18.7	28.9	-32.9	56.6	-153.4	197.2	
4th	26.8	15	15.8	6.1	1.9	-7.5	-22.6	-15.8	-24.4	-34.6	-5.9	
5th	15.7	-40.9	8.9	-12	-2.1	-12.4	47.7	-16.3	58.7	-11.3	3.3	
6th	21.5	2.9	11.3	2.9	-1.7	-14.7	-4	-20.5	-4.8	6.7	5.5	
7th	-5.6	4.6	2.2	4.8	13.9	20.2	3.8	17.2	2	-21.9	-10.3	
8th	5.3	-13.6	-2.8	-3.5	-13.7	-24.2	21.2	-21.2	21	34.1	-18.3	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-340.5	-671.5	-751.1	-4489								
RMS	532.6	475.2	279.9	3151.6								
1/2 P-P	1067.3	962	745.8	4824.3								
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	246.7	-485.4	164.1	-368.8	-40.9	-3309.4	2889	-941.3	1050.6	182.5	-182.7	
2nd	-334.6	68.9	-338.3	40.2	-214.8	463.1	510.2	240.5	-7.9	-71.4	57.6	
3rd	-165.4	319.7	-195.6	302	-164.8	146.2	-40.7	-258.2	63.9	-9.6	-3.8	
4th	6.8	45	36.7	81.2	14.4	28.9	28.8	-189.1	-915.5	-4.4	25.4	
5th	52	-118.7	70	-139.8	71.4	13.2	62.2	-10.2	-216.4	6.8	-7.8	
6th	39.4	5.9	30.3	-19.7	10.7	-3.3	-11.6	12.4	15.9	3.5	-1	
7th	6.4	-0.3	16.8	12.9	6.7	-8.8	10.7	12.1	1.1	0.4	-1.1	
8th	-12.5	-2.1	-39.9	37.4	-41.7	-102.1	-95.8	106.4	91.2	-0.8	0.8	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-273.5		-2955.2		-225.6		-3444.3		-581.5		-126.3	
RMS	308.3		2357.6		294.8		2331		1968.5		1430.3	
1/2 P-P	529.8		3825.2		520.7		3780.7		3214.2		2536.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	238.3	-70.6	-1944.7	-2620	33.9	145.1	2589.4	-1913.7	2222.4	-1578.7	1493.9	-1255.2
2nd	181	261.3	-438.9	-441.9	-179.6	-310.9	389.9	513.8	303.1	410.2	222.5	167.8
3rd	-109	-85.5	-65.3	-80.4	-61.1	108.2	-87.3	65.6	-58	54.6	60.9	13.2
4th	20.7	21.3	19.8	31.8	15.7	18.2	22.7	-12.4	22.2	-74.7	3.3	-364.7
5th	53.5	-32.6	-44.7	62	49.1	39.4	-93.9	-40.1	-42.1	-9.9	146.7	134.6
6th	-16	5.6	7.1	-2.3	15.4	-8.1	2.8	2.9	8.3	1.6	15.5	-4.9
7th	-3.2	3.7	-0.8	17.4	3.9	6	11.6	26.6	5.9	16.2	-7.7	-8.6
8th	10.8	-31.3	-128.7	-71.6	7.4	-19.3	-124.5	-86.1	-107.4	-80.1	-54.8	-53.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1390.9		-493.1		-36.8		-4810.4		-561.3		-100	
RMS	1156.8		213		336.4		1971.5		195.1		24.2	
1/2 P-P	2255.4		346.8		651.3		3196.9		323.5		47.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1062.1	-1058.1	-178.4	224.6	-73.3	330.7	1795.8	2040.8	-187.5	-185.4	22.4	-18.7
2nd	171.8	28.6	-50.5	72.1	114.2	285.2	-383.3	-393.4	61.7	-46.4	-16	5.1
3rd	111.7	-7.2	12.5	12.4	106.2	22.4	70.3	114.4	15.9	-4.5	-0.2	-3.7
4th	-24.3	-503.8	0.1	17.7	16.7	7.2	29.4	-2	2.7	16.2	-1.5	2.2
5th	247.9	184.1	2.9	2.2	-22.9	38.3	40.8	-68.3	-1.5	-0.5	-3	-0.6
6th	16.9	-12.5	3.1	-1.4	-17.8	7.6	14.5	-1.5	-4.5	0.7	0.3	-0.1
7th	-9.8	-19.5	0.9	-0.6	3.4	1.4	29.4	25.6	-1.6	0.6	-0.7	1.6
8th	46.1	29	-1.5	2.5	-0.4	-28.8	-116.8	-85.7	-1.8	3.7	0.3	-1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
16/23												
MEAN	-116.2		262		383.7		539.2		456.8		85.5	
RMS	493.8		293.6		135.3		207.2		257.6		473.2	
1/2 P-P	911.7		503.7		253.6		410.6		486.1		863.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-597.6	-40.6	-72.7	-74.5	-163.5	-258.4	119.9	-311.9	246.2	-547.7		
	-131	-307.9	-172.1	-29.2	-21.5	73.2	-18.2	104.1	-152.9	183.6		
	45.4	-96.6	-55.5	5.4	-18.6	10	-15.6	28	-90.4	137.5		
	18	10.3	4.8	4.3	-5.7	-17.7	-9.2	-19.2	-31.1	-3.1		
	-21.4	-42	-14.1	12.8	20.5	50.3	33.9	60.2	-10.7	2.8		
	15.5	-4	-0.1	-1.7	3.6	5.1	-15.6	4.8	5.3	4.1		
	-4.4	-4.5	-1.2	2.6	2.7	5.4	1.9	7.3	-3.8	-6.5		
8th	1.8	-20.1	-4.7	-10.2	16.5	32.5	-15.1	31.3	28.5	-33.3		
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
16/23												
MEAN	-361.2		-654.5		-683.3		-5197.2		-2478.9		-496.3	
RMS	502.7		430.4		235.1		1797.1		874.4		190.7	
1/2 P-P	940.8		871.5		568.4		2884.5		1788.5		325.8	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	263.3	-492.6	181.7	-368.3	-110.8	1940.6	-594.1	819.1	168.4	-188.7		
	-296.8	119.6	-293.5	78.1	21.2	396.5	203.3	-44.8	-66.3	61.1		
	-86.3	243.3	-108.6	233.9	155.4	-68.8	-147.9	48.8	-7.8	-7.7		
	-2.4	42.1	15.9	75.3	62.6	25.4	-10.1	-548.6	-0.5	18.9		
	-36.3	-128.4	-29.5	-158.5	-98	51.6	-155.3	-188.7	-1.4	-4.7		
	36.8	-6.4	30.2	-22.1	-18.4	-9.3	21.7	9.9	4	-1.6		
	9.1	-7	-3.2	7.5	1.6	25	-1.4	-29.3	-0.4	-1.4		
8th	-8.2	4.8	-24.9	52.4	65.9	-89.6	126.7	79.2	-0.5	1.6		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$	Blade 3, $r/R=0.325$
MEAN	-974.5	-3480.4	-940.2	-3963.4	-1039.8	-292.8						
RMS	369	2154.9	377.7	2182	1824.3	1288.6						
1/2 P-P	633.2	3414.4	657.5	3459.4	2890.5	2148.3						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	280.4	306.3	-1130.6	-2768.6	-367	174	2839.8	-1044.9	-843.4	1589	-789.1	
2nd	125.9	257	-306.7	-431.1	-124.9	-296.6	269.2	478.2	377.2	161.2	145.7	
3rd	-114.8	-26.1	-78.2	-51.6	1.8	115.9	-63.9	70.4	56.1	71.2	-7.5	
4th	10.2	12.6	33.6	31	9	8.2	31.2	0.4	0.7	-40.6	-239.7	
5th	20.6	-13.7	-8.9	45.9	21.3	6.9	-45.2	2.8	-18.7	76.9	55.2	
6th	-16.3	6.2	17.6	-9.3	14.3	-3.3	0.9	5.8	5.1	13.7	1.9	
7th	1	4.5	-25.5	5.3	2.9	-0.6	-15.4	12.9	-17	-16	-10.1	
8th	9.6	-30.5	-101.5	-84	1.1	-23.2	-105.1	-91.8	-86.5	-38.4	-52.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
MEAN	-1448.7	-479.9	-727.1	-5290.2	-545.7	-107						
RMS	1013.3	206.7	242.5	1753.2	184	28.4						
1/2 P-P	1899.2	335.1	500.1	2839.1	301.5	53						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1126.6	-719.2	-162.2	229	-108.8	-35	916.6	2239.8	-163.6	30.4	-20.6	
2nd	145.3	16.5	-43.7	64.4	67	283	-264.2	-384.1	-47.1	-14	4.8	
3rd	112.1	-50.1	11.3	8.7	121.3	-34.8	71.7	94.5	-7.1	-0.5	-3.1	
4th	-224.5	-325.9	-1.1	20.2	9.4	-2.1	34.5	1	16.7	-2.4	2.7	
5th	119.5	67.2	2	1.9	4	17.4	6.6	-46	0.6	-2.9	-0.3	
6th	24	-6.6	2.4	0	-14.5	7.1	12.4	10	-2.9	0.3	0.2	
7th	8.1	-12.6	-0.5	-0.3	-0.7	-0.5	-10.9	2.4	-1.1	-0.1	0.9	
8th	45	33.2	-0.8	2.5	4.2	-37.6	-98.2	-94	-1.3	0.4	-1.3	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$						
16/22												
MEAN	-802.6	-162.4	208.9	461.9	395.6	28.8						
RMS	283.7	169	121.6	204.3	248.4	451.4						
1/2 P-P	543.9	310.8	209.4	391.7	449.2	812.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-222.3	-73.3	-127.5	-91.9	18.1	-162.2	104.7	138.5	-297.2	260.8	-508.4	
2nd	-76	-294.7	-34.3	-164	-15	-21.1	-8.8	68.3	-19.8	97.7	-156.9	171.8
3rd	-8.8	-103.2	-0.3	-59.4	3.4	-15.7	10.2	16.2	9.4	34.2	-36.2	147.7
4th	9	3.5	7.6	2.3	4	-1.8	1	-8	-3.4	-7.9	-26.1	2.9
5th	-8.5	-3.4	-0.4	0.8	10	5.6	18.9	9.4	18.5	10.1	-11.2	-1.3
6th	14.5	-7.4	8.6	-2.5	0.5	3	-9	5.9	-12.5	6.6	0.7	-0.4
7th	-3.4	1.2	1.9	0.4	8.6	0.2	11	-0.4	8	0.2	-14	-0.5
8th	9.9	-20	0.1	-3.5	-14.6	18.7	-28.5	34.9	-25.7	33.5	40.9	-32.9
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$						
16/22												
MEAN	-354.1	-607.4	-593.4	-5722	-2531.6	-483.7						
RMS	456.6	375.6	201.4	1514.7	720.8	182.5						
1/2 P-P	802.4	713.9	513.1	2508.3	1572	300.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	248.9	-451.3	163.8	-329.8	-613.7	572.8	152.3	-55.5	55.6	-5.2	19.3	-2.2
2nd	-262.8	129.9	-247.1	88.7	169.5	-51.4	-8.2	-3.6	-0.5	-2.2	-2.2	-0.6
3rd	-46	238	-69.9	235.4	20.5	65.2	-395.7	-48.7	-0.5	-2.2	-2.2	-0.6
4th	-14.8	29.6	-12.3	52.4	39.7	-48.7	-48.7	-0.5	-2.2	-2.2	-2.2	-0.6
5th	-9.5	-35.5	5.1	-48.5	6	-48.7	-48.7	-0.5	-2.2	-2.2	-2.2	-0.6
6th	34.8	-11.3	32.9	-22.3	8.7	-1.1	2.1	0.8	-0.3	-0.3	-0.3	1.5
7th	14	-5.3	11.9	-4.4	24.9	3.5	0.8	-0.3	-0.3	-0.3	-0.3	1.5
8th	-10.4	6.7	-39.6	56.6	100.9	95.8	-0.3	-0.3	-0.3	-0.3	-0.3	1.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$	Blade 3, $r/R=0.325$
MEAN	-2464.5	-4555.4	-2463.8	-5057.6	-2031.8	-693.5						
RMS	436.5	1308.3	492	1454.8	1202	859.9						
1/2 P-P	785.7	2245.1	898.6	2426.2	1963.8	1545.7						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$	Blade 3, $r/R=0.325$
1st	345.8	391	-1788	-538.8	254.1	-72.7	1657.8	-25.8	1140.6	78	-226.8	107.2
2nd	35.3	302	-341.3	-34	-333.8	115	392.9	304.2	42.3	49.5	-11.3	-11.3
3rd	-79.9	54.5	-13.8	74.4	74.6	-16.6	62.2	-0.4	227.9	-157.7	-35.9	-35.9
4th	-4.8	-8.1	36.8	-7.7	-17.8	39.5	-7.2	9.2	32.8	1	-8.1	-8.1
5th	-17.8	1.4	8.8	6.8	-29.1	-12.8	20.6	16.7	-12.6	-9.4	-61	-61
6th	-5.6	3.3	-3.7	4.9	-3.6	4.4	2.1	-0.5	1	-9.4	-61	-61
7th	6.4	2.8	26.2	0.6	-7.7	29.7	23.8	18.1	-12.6	-9.4	-61	-61
8th	-0.3	-56.9	-106.4	0.4	-37.4	-107	-120.3	-87.2	-108.6	-48.1	-61	-61
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
MEAN	-1615.7	-437.2	-2205.9	-6335.2	-495.6	-113.4						
RMS	696.9	203.4	305.1	971.4	177.6	28.7						
1/2 P-P	1481.3	321.4	613.3	1705.7	283	50.6						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
1st	821.1	-283.8	-133.1	-190.4	-146.5	1309	-204.7	-130.2	30.1	-24.4		
2nd	79.4	4.1	-25.4	-13.6	317.2	-326.2	30.2	-53.5	-9.8	4.1		
3rd	49.9	-49.9	10.8	84.1	-115.4	50.5	3.7	-8.7	-0.6	-1.2		
4th	-342.9	-199.3	4	-2.7	-25.1	37.2	2.1	16.5	-1.2	2.7		
5th	40	-57.4	0.6	35.2	-2.6	-28	-0.1	0.4	-2.6	-0.6		
6th	0.2	-11.5	2	-7.8	3.4	6	-2.2	1.5	0	-0.1		
7th	-21.7	-15.6	-1.1	-3.2	0.9	29.3	8.1	2.6	-0.2	1		
8th	36.7	49	0.1	-11.5	-49.4	-94.8	-113	4.7	0.5	-0.7		

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-337.7	-482.4	-377.6	-6831.4	-2645.8	-440.2						
RMS	403.2	330	184.9	719.3	485.7	176						
1/2 P-P	673.1	658.6	450.2	1459.7	1086.3	281.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	234.8	-396	149.1	-289.7	-6.6	-72.4	-923.8	-27.8	-409.2	251.9	123.1	-205.1
2nd	-180.1	173.2	-149.5	123.4	-77.1	34.2	99.5	333.9	91.8	-40	-33.9	56.3
3rd	19.6	210.4	0.5	225.8	2.9	162.1	36.5	-60.1	-26.5	98.5	-6.5	2.1
4th	-34.7	7.8	-51.9	13.2	-62.7	26.3	14.5	32.3	-234.8	-301.3	1.7	16.7
5th	6	32.2	26.3	33.2	26.3	19.9	1.1	-20.2	-23	23.7	0.2	-1
6th	18	-9.1	12.2	-8.7	12.6	-7.1	-9.3	-9.9	16.9	13.3	1.4	-1.7
7th	10.8	0	5.6	-4.2	-6.1	-2.3	16.8	15.5	-16.9	-17.1	1.6	-0.8
8th	-4.6	19.2	-12.9	97.5	-22.8	106	-102.3	-114.9	104.9	102.6	0.4	2.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $\tau/R=0.144$		Blade 2, $\tau/R=0.144$		Blade 3, $\tau/R=0.144$		Blade 3, $\tau/R=0.144$		Blade 3, $\tau/R=0.174$		Blade 3, $\tau/R=0.325$	
MEAN	-3633.9		-5510.2		-3634.8		-6011.6		-2889		-1060	
RMS	322.4		352.5		308		491.9		409.1		286.8	
1/2 P-P	642.9		839.3		609		997		830.8		642.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $\tau/R=0.144$		Blade 2, $\tau/R=0.144$		Blade 3, $\tau/R=0.144$		Blade 3, $\tau/R=0.144$		Blade 3, $\tau/R=0.174$		Blade 3, $\tau/R=0.325$	
1st	201.5	-137.4	296.5	-163.1	-33.2	123.6	340.9	438.9	286.7	382.6	301.6	80.3
2nd	21.1	335	-72.7	-245.2	-11	-364.1	37.3	308.6	26.2	232.9	35.7	75
3rd	-14.6	165.9	-43.3	7.2	178.8	12.8	-6.4	51	3	35.9	13.3	-21.8
4th	-5.3	-18.5	51.6	15.8	-7.7	-22.4	11.4	0.2	-15.2	-9.5	-146.2	-47.9
5th	-37.4	20.6	50.9	-31.8	-12.6	-47.1	14.6	64.9	4	33.6	-11	-91.8
6th	-2.1	11.5	3.7	3.3	-0.7	-15.5	6.9	9.9	7.5	3.5	-9.2	-15.7
7th	7.3	3.3	17.5	-3.4	0.9	-6.1	27.2	-0.9	16.8	-1.7	-9.4	-10.2
8th	-7.3	-34.2	-29.2	-25.2	-0.9	-25	-34.1	-38.8	-26.6	-32	-12.1	-21.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $\tau/R=0.450$		Blade 3, $\tau/R=0.400$		Blade 4, $\tau/R=0.144$		Blade 4, $\tau/R=0.144$		Blade 4, $\tau/R=0.400$		Blade 1	
MEAN	-1760.4		-398.2		-3350.6		-7263.1		-447.9		-110.9	
RMS	307.6		207.8		409.8		548.1		183.2		21	
1/2 P-P	797.8		328.7		806		1129.2		295.8		38.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $\tau/R=0.450$		Blade 3, $\tau/R=0.400$		Blade 4, $\tau/R=0.144$		Blade 4, $\tau/R=0.144$		Blade 4, $\tau/R=0.400$		Blade 1	
1st	281.2	-34.5	-109.2	262.8	-31.1	391.9	-565.8	-379.6	-226.1	-108.9	10.7	-26.2
2nd	29.3	-8.3	0.8	68.6	-24.3	354.2	-43.1	-243.6	5.4	-59.7	-4.6	5.7
3rd	1.4	-56.9	7.4	2.1	15.7	-217.6	49.5	30.6	-2.9	-6.8	0.5	0.9
4th	-207.7	-55.4	15.2	17.5	-11.1	-27.2	22.2	7	13.7	14.4	0.1	3.1
5th	-30.1	-151.7	-0.5	-1.2	44.3	-24.6	-61.6	22.8	2	-1.4	-1	-0.8
6th	-7.5	-23.9	2.2	-1	-5.4	15	2	-18.6	-1.4	1.7	-0.1	-0.1
7th	-20.1	1.2	-2.4	-0.4	-4.7	-0.7	19.9	-18.5	-0.1	2.2	0.1	0.7
8th	15.9	22.1	1.2	2.7	0.6	-23.7	-22.2	-37.2	0.5	3.4	-0.2	-0.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	-3443.5	-1803.6	-462.9	170.4	171.2	-184.4				
RMS	519	302.3	113.8	162.5	208.4	391.9				
1/2 P-P	989.4	567.3	208.2	309.2	397	699				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-616.9	-24.6	-359.7	-61.6	-93.9	-118.9	-190.4	106.1	-228.6	272.1
2nd	11.2	-345.1	20.2	-195.4	14.3	-33.8	68.2	0.3	103.4	-88.8
3rd	-179.2	-15.2	-95.4	-13.2	-4.7	-5.3	1.6	88.1	6.9	148.9
4th	-7.8	-19.4	-1.4	-8.9	3.2	2.4	11.3	3.5	16.2	-14
5th	19.3	33.9	12.1	14	6.8	-12.9	-37.2	-5.5	-44.2	-18.1
6th	4.9	-11	5	-2.5	3.9	7.9	17.3	-0.1	19.5	-2.7
7th	0.9	5.2	4.3	2.5	8.5	-2.3	-5.1	4.9	-4.1	-11.3
8th	-3.1	-9	-0.6	-1.8	2.3	9	17.5	2.3	16.3	5.2
										-21.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	-328.8	-384.7	-191.2	-7806.8	-2734.6	-397.3				
RMS	375.5	302.7	161.5	627.1	295.1	178.7				
1/2 P-P	680.8	574.7	356.9	1237.5	804	288.6				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	233.4	-352.4	154.7	-259.3	25.9	-65.9	-521.6	-82.1	99.6	-222.7
2nd	-82.3	225	-53.3	168	-22.3	53.7	235	42.3	-7.4	61.7
3rd	93.7	156.1	71.3	188.3	60.8	148.5	-43.5	32.1	-3.6	6.1
4th	-20.9	-4.1	-47.1	-13	-62.1	7.4	27.5	-272.6	11.9	16
5th	15	81.3	35.6	85	20.1	46.5	-52.9	20.1	2.2	1.5
6th	15.9	-24.9	22.8	-11.9	33.9	-1.7	10.1	19.3	0.9	-1.7
7th	15.1	-0.2	11.4	-9	1	-2.9	-15	-10.9	2.2	-0.2
8th	2.5	7.3	4.1	31.2	-7.3	33	-26.9	19.8	0.9	1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	2492.3	-1074	2650.7	-1814	920.1	451.1						
RMS	913.4	7630.8	818.6	6971.3	5894.3	3965						
1/2 P-P	1751.4	11418.8	1516.4	10398.3	8830.1	6574.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	428.3	1032.7	-5962.6	-8867.2	-928.1	203.5	7416.2	-6332.9	6343.5	-5272	3974.8	-3631.1
2nd	357.7	232.1	-943.3	-1062.4	-389.8	-300.3	912.3	1024.6	726.9	846.1	517.9	401.5
3rd	-322.5	-310.7	-113.8	-272.8	-267.8	320.6	-184.6	165.9	-98.4	155.9	339.9	116
4th	54.8	54.3	88.1	175.2	60.5	29.6	65.8	-68.7	7.3	-276.3	-318.3	-1272.6
5th	147.7	-21	-55.4	65	25.8	102.5	-97.5	-64.1	-39.5	-2.7	194.2	294.6
6th	-35	13.2	1.8	6.4	30.1	-10.4	-20.5	-12.3	-12.6	0.8	14.8	58.5
7th	-0.7	13.4	-23.6	-4.1	9.9	3.1	-18.6	55.7	-20.7	34.6	-18.3	-28
8th	1.1	-66.6	-258	-169.3	-19.3	-41.3	-263.1	-167.4	-218.8	-173.3	-116.3	-98.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1031	-491.8	0	-3044.6	-598.3	-36.3						
RMS	3092.2	275.2	0	7628.9	252.6	30.2						
1/2 P-P	5597.2	452.4	0	11413.2	427.2	56.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2630.2	-2832.8	-273.9	232.6	0	0	6064.6	8806.8	-191.3	-272.6	25.6	10.9
2nd	441.3	156.2	-57.2	123.6	0	0	-860	-1063.4	86.4	-83.7	-21	21.9
3rd	577.3	63.6	1.1	-15.6	0	0	56.2	249.4	-2.8	4.2	5.4	0.2
4th	-583.6	-1715.8	19.3	50.3	0	0	46.5	-0.7	17.4	34.4	1	6.6
5th	323.4	411	-17.7	0.1	0	0	48.4	-46	-9.6	-17.8	2.2	4.2
6th	33.7	49.8	3.6	-1.8	0	0	-1.3	17.8	-2.6	3.5	0.3	0.5
7th	-27.2	-45.9	1.2	-3.5	0	0	-1.3	42.1	-5.2	-0.5	-1.6	-2.4
8th	108.5	54.1	-2.1	10.4	0	0	-247.9	-180.9	-2.8	11.5	-0.3	-3.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
35/12												
MEAN	-361.6	-820.9	-1026	-3360.5	-2187.7	-488.4						
RMS	764.8	738	481.8	7242.3	2579.2	260.6						
1/2 P-P	1567	1537.6	1199.1	10720.3	5137.2	447.6						
HARMONIC												
1st	COSINE 278.4	SINE -655.7	COSINE 181.4	SINE -522.5	COSINE -79.9	SINE -197.4	COSINE -7805	SINE 6480.7	COSINE -1818.2	SINE 2132.4	COSINE 266.2	SINE -210.2
2nd	COSINE -524.6	SINE 80.2	COSINE -565.6	SINE 42.3	COSINE -387.5	SINE 8.3	COSINE 957.6	SINE 918.9	COSINE 469.5	SINE 8.1	COSINE -70.9	SINE 102.3
3rd	COSINE -242.5	SINE 449.7	COSINE -288.9	SINE 404.7	COSINE -261	SINE 247.9	COSINE 274.6	SINE -87.7	COSINE -570.4	SINE -33.3	COSINE 7.3	SINE 21.8
4th	COSINE 45.4	SINE 75.5	COSINE 131.2	SINE 145.2	COSINE 92.3	SINE 100.2	COSINE 13.5	SINE 92.6	COSINE -175	SINE -2131.2	COSINE 23.8	SINE 53.9
5th	COSINE 70.6	SINE -309	COSINE 91.9	SINE -372.9	COSINE 137.2	SINE -227.7	COSINE 55.9	SINE 63.7	COSINE -146.7	SINE -373.1	COSINE 27.9	SINE -3.7
6th	COSINE 70.4	SINE -1.8	COSINE 32.1	SINE -59.4	COSINE -13.1	SINE -56.2	COSINE -1.9	SINE -6.5	COSINE -0.3	SINE 28.3	COSINE 2.8	SINE -4.8
7th	COSINE 3.1	SINE -12.1	COSINE 12.3	SINE 21	COSINE -26.4	SINE -8.8	COSINE 6.4	SINE -5.8	COSINE 29.3	SINE 4.3	COSINE -3.7	SINE 4.5
8th	COSINE -29.7	SINE 12.2	COSINE -35.6	SINE 132.1	COSINE -11.7	SINE 165.3	COSINE -255.6	SINE -185	COSINE 289.4	SINE 177.1	COSINE 0	SINE 7.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/11												
MEAN	1618.2		-2123.7		1731.4		-2567.2		249.5		279.8	
RMS	730.5		5790.2		643.1		5629.6		4750.2		3187.1	
1/2 P-P	1382.1		8813		1197.1		8686.2		7355.2		5351.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	519	727.3	-4388.3	-6812.4	-646.2	366.7	6457.4	-4496.6	5505.4	-3714.6	3440.8	-2648.1
2nd	263.6	213.3	-731.9	-782.8	-270.6	-268.9	716.4	845.1	578.4	690.8	415.5	306.2
3rd	-282.8	-217.6	-105.9	-228	-184.6	283.7	-203.7	90.8	-122.3	79.8	239.1	33.4
4th	55.7	53.1	75	94.1	58.2	24.6	39.9	-93.2	-2.2	-236.8	-253.4	-968.4
5th	94.3	-30.6	-47.5	80.1	28.8	57.7	-77.5	-14.7	-27.5	17.5	158.8	188.3
6th	-29.2	3.3	9.4	6.1	20.2	-3.9	0.4	-0.7	-0.2	6.8	1.7	38
7th	-1.4	13.2	11.6	-9.3	6.7	4.5	18.1	17.1	9.6	6.3	-12.7	-27.4
8th	-8.8	-70.9	-272.7	-147	-16.3	-46.7	-311.4	-156.2	-263.6	-162.4	-145.2	-87.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
35/11												
MEAN	-1081.4		-504		0		-3943.7		-594.7		-50.5	
RMS	2453.8		242.5		0		5638.3		226.8		25.9	
1/2 P-P	4559.5		403.5		0		8643.6		393.5		47	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2285.9	-2107.8	-226.3	229	0	0	4308.7	6615.3	-194.1	-230.9	25.5	-6.4
2nd	358.1	97.2	-59.8	94.1	0	0	-635.3	-791.3	83.2	-59.4	-18	16.4
3rd	429.3	-14	0.1	-4	0	0	72.2	224.5	7.3	-3.4	3.5	-1.3
4th	-448.7	-1279.6	10.8	32.8	0	0	26.8	-35.1	10.4	28.5	0.2	3.8
5th	264.1	246	-10.4	5	0	0	26.5	-75.4	-8.9	-12.9	1.8	2.3
6th	7.1	29.8	1.9	-2.1	0	0	-15.4	1.5	-3.4	3.2	0.3	0.3
7th	-36.9	-23.1	-0.4	-1.3	0	0	28.2	3.5	-3	-0.4	-1.3	-1.4
8th	117.1	56.4	1.1	7.5	0	0	-268.1	-176.8	0	9.5	-0.4	-2.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
35/11										
MEAN	1718		1404.8		854.5		735.6		613.7	
RMS	403.8		245.6		209		277		329.8	
1/2 P-P	708.9		426.2		399.6		596.6		671.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	166.7	-276.9	98.9	-206.1	126.3	-247.6	133.6	-322	157.5	-379.1
2nd	-223.6	-254.6	-122.8	-141.2	-51.5	-7.4	-16.4	76.2	-20.8	104.7
3rd	172.3	-246.5	101.3	-138.9	7.3	-31.4	-53.2	43.9	-79	85.6
4th	46.1	32.5	25.1	9.9	0.5	-21.1	-21.4	-48.8	-35.2	-53.6
5th	-4.2	-69.2	1.6	-25.8	3.5	29.2	3.8	75.3	4.2	92.9
6th	25.7	-5.1	12.6	-2.5	-3.7	-2.8	-23.1	-4	-29.2	-2.6
7th	-9.3	-3.7	3.7	-2.2	20.4	1.1	29.6	2.5	27	4.2
8th	-12	-47.2	-14.4	-10.5	-20.5	42.4	-23.6	85.3	-14.4	84.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
35/11										
MEAN	-388		-795.3		-939.4		-4279.8		-2261.3	
RMS	676.7		635.2		410.4		5377.4		1983.8	
1/2 P-P	1364.6		1328		1089.1		8172.5		3964.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	250.9	-592.8	166.5	-453	-67.6	-153.4	-5887.8	4682.8	-1427.8	1623.4
2nd	-435.9	98	-450.7	62.1	-298	25.9	717.3	692.9	354.6	-36.7
3rd	-221.6	431.8	-273.9	398.7	-244.6	259.4	239.9	-68.1	-445.3	31
4th	38.3	81.3	103.9	147.7	63.5	109.3	6.1	48	-197.7	-1597.4
5th	18.8	-217.4	37.3	-264.2	83.9	-153.8	63.4	40	-160.9	-277
6th	61.2	0.8	28	-50.6	-5.2	-48.5	-2.6	8.1	-2.3	7.9
7th	8.2	-13	20.1	10	-11.8	-19.5	22.1	-20.9	-17	19.1
8th	-25.2	12.3	-27.8	132.9	-11.9	162.2	-280.2	-168.2	291.3	152.9
HARMONIC	COSINE		SINE							

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/10												
MEAN	931.6	-2657	1017.7	-2950.7	-118.3	192.2						
RMS	401.7	4142.9	360.6	4085.4	3466.5	2425.9						
1/2 P-P	769.5	6388.9	597.2	6407.8	5486.3	4323.2						
HARMONIC												
1st	266.9	236.3	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	197.7	224.1	-4615.8	-181.8	161	4490.2	-3500.2	3856.8	-2912.4	2478.2	-2137.6	225.2
3rd	-215.3	-199.7	-587	-206.7	-269.4	560.6	675.8	457.8	544.1	346	163.2	8
4th	41.7	35.7	-164.5	-167.8	217.2	-155.2	53.7	-95.3	44.6	163.2	-849.4	202.7
5th	86.4	-29	66.4	40.7	18.7	43.8	-62.4	30.9	-194.5	-66.5	160.6	25.6
6th	-34.1	9.8	78.1	30.6	48.3	-75.4	-55.6	-26.9	-9.9	13.6	-20.7	-100.3
7th	1.9	12	0.5	28.4	-10	3.1	3.5	6.2	32.6	-7.4		
8th	-3	-72.1	-173.7	-8.8	-44.2	18	50.4	8.2	-189.3	-126.9		
		-247.9										
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
35/10	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1099.9	-503.6	0	-4435	-585.3	-58.8						
RMS	1944.7	234.3	0	3939.8	220.6	22.6						
1/2 P-P	3763.4	385.6	0	6115.4	377.9	41.7						
HARMONIC												
1st	1677.5	-1736.1	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
2nd	310.5	47.3	-208.6	232.8	0	3403.2	4328.9	-200	-214.6	21.4	-10.7	
3rd	296.1	-19.5	-57.4	88.3	0	-463.5	-585.3	81.5	-59	-16.5	11.9	
4th	-172.6	-1140.5	10.6	5.2	0	63.2	175	12.1	-16.4	0.5	-2.7	
5th	266.6	288.4	4.6	25.9	0	18.2	-29.1	2.6	21.8	-1	2.5	
6th	20	7.4	-6.3	2.8	0	66.5	-88	-5.9	-8.3	0.8	2	
7th	-20.9	-36.3	2.8	-2.8	0	5.3	10.3	-2.7	3.3	0.1	0	
8th	108.5	64.9	-0.9	-1.3	0	9.4	7.9	-1.5	-0.6	-1.2	-1.2	
			-0.9	6.3	0	-230.4	-186.4	-1.7	7.7	-0.8	-2.3	

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570									
35/10															
MEAN	1024.4	973.9	679	653.5	548.4	183.1									
RMS	354	209.4	152.4	249.6	303.2	563.9									
1/2 P-P	776.6	442.5	328.5	572.4	625.7	1117.9									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE									
1st	-293.3	-65.7	-178.2	-82.3	5.8	-191.5	-295.6	92	-15.6	75.9	-23.8	129.3	-357.2	218.2	-641.2
2nd	-150	-264.8	-79.3	-146.9	-35.8	-9.9	-27.4	-43.2	27.9	-65.3	59.6	-21.2	-36.4	-42.5	-0.1
3rd	154.5	-184	90.9	-103.7	8.2	2.9	-14.6	-10.8	8.9	56.4	0.9	-29.2	4.8	15.8	10.8
4th	30	24.1	17.8	8.3	-15.8	-4.1	3.7	18.9	-25.6	46.6	-34.5	93	-25	65.1	-101.2
5th	-10.5	-47.2	-2	-15.8	4.9	-0.3	23.6	8.9	56.4	0.9	-29.2	4.8	15.8	10.8	7.3
6th	23	-9.1	10.5	-4.1	-5.6	0.5	-0.3	-23.6	28	-3.5	24.9	-4.1	-30.3	-3.7	10.8
7th	-8.5	6.7	2.9	3.7	18.9	0.5	28	-34.5	93	-25	65.1	-101.2	-3.7	10.8	7.3
8th	-4.8	-53.8	-11.7	-12.4	-25.6	46.6	-34.5	93	-25	65.1	-101.2	-3.7	10.8	7.3	10.8
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400									
35/10															
MEAN	-392.9	-751.3	-846.8	-4847	-2299.2	-503.1									
RMS	632.4	578.2	359.3	3740.9	1613	215									
1/2 P-P	1235	1189.2	945.4	5743.6	3386.4	368.9									
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE									
1st	255.6	-592.8	174.1	-462	-156.1	-3622.1	3759.5	-1008.9	1389.6	197.2	-203				
2nd	-406.2	125.7	-406.5	91.4	35.7	544.6	509.6	318.8	-76.8	-72.7	76.3				
3rd	-176.9	361.5	-212.9	343.2	224.4	187.3	-49.7	-321.2	19.5	-10.4	1				
4th	1.4	60.9	50.7	110.1	89.1	1.7	46.2	39.3	-1331.1	6.5	26.2				
5th	11.6	-164.7	22.2	-199.1	-116.2	68.1	79.8	-156.3	-286	9.8	-8.5				
6th	55.2	-10.9	22.2	-52.5	-49.4	3.2	-25.4	-1.7	38.3	5.9	-2.2				
7th	8.3	-8.9	20.5	8.8	-8.2	-12	2.9	11.6	-3.8	-1.5	1.7				
8th	-29.2	18.3	-49.5	144.6	172.7	-243	-189.5	265.3	176.4	1.5	4.4				

RUN/POINT 35/ 9	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	290.9	-3122.2	-3122.2	-4321.9	-376.6	270.4	4236.7	-2629.9	-558.5	-2166.1	2357.1	-1639
RMS	463.5	3629.6	3629.6	-600.3	-257.8	-284.6	518.8	667.4	3038.6	540.1	290.7	226.3
1/2 P-P	814.1	5721.5	5721.5	-92.6	-92	130.1	-90.8	87.2	4941	72.1	100.9	22.3
HARMONIC	1st	331.9	391.9	-2616.5	-376.6	270.4	4236.7	-2629.9	-558.5	-2166.1	2357.1	-1639
	2nd	251	245.5	-561.6	-257.8	-284.6	518.8	667.4	3038.6	540.1	290.7	226.3
	3rd	-118.2	-120.1	-95.3	-92.6	130.1	-90.8	87.2	4941	72.1	100.9	22.3
	4th	27.8	25.5	37.8	42.6	11.9	39.3	-46	51.6	-129.7	70.4	-558.9
	5th	62.7	-33.8	-52.7	75.3	50.4	-61.5	-62.3	-17.2	-28.5	149.2	140.1
	6th	-22.3	7.2	19	0.5	16.2	-19.2	9	-14.3	5.4	6.5	4
	7th	1.3	2.3	2.7	-21.7	0.5	-4.8	7.4	-7.2	-0.2	-12.6	-19.9
	8th	-3.3	-51.8	-213.7	-144.3	-8.9	-242	-149.7	-199.8	-149.8	-112	-74.6
RUN/POINT 35/ 9	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1114.6	-497.1	-497.1	0	-4896.4	0	-4896.4	0	-574.6	-66.6	26.9	48.6
RMS	1620.4	227.8	227.8	0	3414.5	0	3414.5	0	211.8	26.9	48.6	
1/2 P-P	3201.2	368.2	368.2	0	5382.9	0	5382.9	0	358.3	48.6		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	1611.4	-1358.2	-194	236.7	0	2517.4	4037	-202.8	-198.1	27.1	-17.2
	2nd	241.3	63.2	-47.9	84.2	0	-450.6	-570.7	71.2	-58.5	-16.3	10.7
	3rd	175.4	0.4	8.1	11.8	0	100.6	123.2	16	-13.1	1	-2.9
	4th	48.2	-757.5	7.5	18.8	0	24.1	3.5	1.6	16.4	-0.9	1.8
	5th	239	206.7	0.4	0.9	0	38.9	-54.3	-0.4	-4.1	-0.9	2.4
	6th	22.9	-14.8	0.7	-1.8	0	10.8	15.5	-3.2	4	-0.1	0
	7th	-11.8	-5	-2.6	-1.4	0	3.5	-23.7	-0.4	-0.9	-0.5	-1.6
	8th	88.4	57.4	-0.1	4	0	-203.3	-171.6	-0.6	5.9	-0.9	-1.9

RUN/POINT 35/ 8	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-288	-3654.3	-224.7	-3970.7	-1033.3	-115.1						
RMS	334.4	2523	324.1	2579.3	2185.5	1588.4						
1/2 P-P	706.9	4214.1	734.2	4331.6	3687.1	3056.3						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	279.5	107.3	-1756.3	-3021.7	-102.2	217	3101.1	-1778.5	2654.3	-1466.2	1764.5	-1212.3
2nd	120.7	274.2	-351.1	-481.4	-110.7	-315.3	330.9	499	272.1	392.4	228.4	132.9
3rd	-134.2	-107.9	-70	-66.4	-79.6	140.1	-71.4	58.3	-41.2	46.7	91.8	-12.1
4th	28.2	13.7	20.3	60.3	27	3.7	26.7	-36.1	29.6	-110.6	25.5	-507.1
5th	11.5	-23.6	-14.1	83.1	30.3	-13.8	-63.1	3.8	-26.1	8.4	127.7	37.1
6th	-21.7	6.4	11.4	6.3	18.3	-8.9	-10.7	-4.3	-6.3	-2.9	-5.7	9.3
7th	-0.9	4	3.5	-15.3	1.6	0.2	3.2	-3	1.2	-9.3	-4.2	-26.8
8th	0	-51.3	-191.1	-117.3	-6.3	-40.9	-213	-137.9	-174.2	-137	-92.7	-66.1
RUN/POINT 35/ 8	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1201.6	-482.6	0	-5418.9	-554.4	-70.5						
RMS	1301.3	221	0	2303.7	203.1	24.4						
1/2 P-P	2745.4	363.2	0	3879.4	342.4	46						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1236.4	-1065.3	-172	243	0	0	1629.1	2745	-207.8	-177.5	21.1	-21.6
2nd	215	-15.2	-48.6	76.1	0	0	-251.1	-430.2	61.3	-54.4	-13.3	8
3rd	154.4	-42.8	15.1	16	0	0	72.9	95.9	20.5	-15	-0.9	-4
4th	-11.2	-674.9	4.7	16.1	0	0	21	11.5	1.3	14	-1.9	1.2
5th	202.5	43.8	0.7	1.7	0	0	-12.9	-72.3	-0.7	-3.8	-1.5	1.6
6th	11.7	6.3	1.1	-3.5	0	0	4.9	8.1	-3.6	4.7	0.3	-0.3
7th	-8.6	-7.5	-1.5	-1.1	0	0	13.9	-22.6	-0.6	-0.4	-0.4	-0.9
8th	86.1	51.1	0	3.3	0	0	-179.4	-146.9	-0.9	5	-1	-0.9

RUN/POINT 35/ 8	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-181.4		223.6		371		511.8		435.1		61.6	
RMS	386.3		234.2		149.1		230		278.6		523.9	
1/2 P-P	755.7		436.4		289.7		461.3		551.7		978.4	
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-391.2	-100.7	-233.5	-110.2	-26.2	-190.3	80.6	-284.8	119.9	-341.7	239.4	-610.4
2nd	-50.8	-322.1	-18.3	-180.7	-10.4	-23.5	-9.7	74.8	-21.7	108.1	-176.3	216.6
3rd	57.4	-119.2	36	-69.2	4	-23.9	-14.3	9.7	-23.1	31	-100.2	151.8
4th	15.1	2.5	11.7	-2.1	5.8	-11.5	-0.8	-20.9	-7.9	-20.4	-35.7	14.7
5th	-20.1	5	-4.4	2.6	15.2	0.9	31.3	-4.5	34.3	-4.8	-16.6	6.3
6th	17.4	-11.1	8.4	-3.8	-3.2	2.8	-17.8	7.2	-22	10	9.1	4.9
7th	-4.5	-2.7	2.6	-0.6	10.6	2.1	13.5	2.9	11	3.9	-16.4	-5
8th	3.8	-35.3	-7.8	-7.7	-26.9	28.8	-40.5	57.9	-33.7	60.6	59.2	-58.8
RUN/POINT 35/ 8	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-405.4		-686.1		-684.1		-5870.9		-2380.5		-486.7	
RMS	554.5		468.7		270.2		2099.4		1101.5		197.1	
1/2 P-P	986.9		964.4		748.6		3625.8		2539.5		332.6	
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	254.7	-565.2	170.2	-422.8	-25.7	-119.2	-2136.1	1943.8	-712.4	893.6	159.6	-207.6
2nd	-312.1	185.5	-290.4	140.4	-162.5	52	315.1	444.9	230.2	-97.7	-62.9	65.9
3rd	-90	271.5	-124.6	271.5	-102.9	182.8	93.8	-40.9	-151.2	36.5	-11.5	-10.2
4th	-2.8	59.8	19.1	100.9	-10.3	96.3	-10.5	70.8	165.2	-866.1	-4.2	17.6
5th	-28.5	-31	-6.9	-48.1	32.4	-25.8	74.6	2.4	-164	-49.8	0.5	-0.3
6th	49.1	-25	35.4	-52.7	31.5	-51.8	-4.9	6	16.2	-4.8	4.7	-5.2
7th	18.4	-16.8	12.7	-4.2	-15	-11.7	18.2	-29.6	-7.6	31.9	1	1
8th	-21.2	6.5	-54.1	91.2	-68	116.9	-176.5	-146.8	194.3	129.9	-1.1	3.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/ 7												
MEAN	-1042.2		-4056.5		-993.1		-4364.5		-1386.9		-201.2	
RMS	336.8		1790.4		329.7		1898.1		1600.4		1157.9	
1/2 P-P	632		2885		636.8		3139		2651.4		2088.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	294.4		87.9		-113.4		236.9		2042		-832.2	
2nd	112.6		324.4		-97.4		-353		234		374.9	
3rd	-81.5		-6		17.3		89.5		-12.4		61.8	
4th	33.2		7.1		30.1		1.1		13.1		-50.1	
5th	29.7		-16.6		23.8		3.1		-14.8		75.9	
6th	-11.5		16.4		10.7		-17.7		-2.4		-0.3	
7th	2.1		5		0.4		-4.8		3.1		19	
8th	-15		-51.5		-18.2		-37		-171.5		-86.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
35/ 7												
MEAN	-1210.7		-468.5		0		-5756.3		-536.4		-78.3	
RMS	914.4		216.9		0		1549.2		195.8		25.5	
1/2 P-P	1812.8		353.7		0		2546.2		321.9		46.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	990.3		-715.8		0		0		-209.3		22.2	
2nd	151.4		-3.8		76		0		50.6		-11.4	
3rd	72.3		-58.5		8.3		0		11.9		-1.3	
4th	-1.8		-297.1		16.1		0		9.7		0	
5th	121.3		76.9		0		0		-1.4		-2.5	
6th	10.4		-20.6		-2.8		0		-2.9		-0.1	
7th	-14.2		-21.5		0.5		0		0.2		-0.3	
8th	77		29.1		3.3		0		2.3		-0.2	

RUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
35/ 7						
MEAN	-401	-632.5	-581.4	-6263.9	-2405.4	-473.1
RMS	489.3	411.3	231.4	1366.4	720.9	191.4
1/2 P-P	871.9	860	627.1	2255	1620	317
HARMONIC						
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE
	252.9	-494.2	169.2	-366.3	-14.4	-98.6
2nd	-241.8	198.1	-218.2	145.5	-118.3	46.6
3rd	-18.6	245.1	-48.9	260.4	-39.9	185.2
4th	17	36.2	26.8	59.2	-7.8	62
5th	-28.1	-62.3	-13.7	-89.2	12.1	-18.8
6th	32.1	-33.2	28.9	-42.3	32.6	64.6
7th	14.7	-11.6	12.5	-8.2	-11.3	-34.1
8th	-4.8	21	11	121.1	6.5	-5.7
				142.2	-191.7	10.6
				-90	200.9	-2.9
				79.4	1.1	2.1
				-210.4	67.4	-3.2
				-51.1	-9.9	13.9
				-84.7	-425.1	-3
				84.7	-97.3	-2.1
				5.9	-3	-3.9
				5.9	3	-0.5
				-8.3	2.1	2.6
				-8.3	79.4	1.1

RUN/POINT 35/ 6	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2305.5		-4897.3		-2279.6		-5210.5		-2158.6		-488.9	
RMS	383.5		1023.6		398.1		1224.8		1022.8		752.6	
1/2 P-P	740.7		1898		829.9		2340.1		1897.5		1444.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	316.8	183.4	66.5	-7.4	-29.1	-6.4	-2.6	-33.2	183.4	66.5	-7.4	-29.1
2nd	75.5	362.4	-86.5	24.9	40	9.2	-4.9	-59.6	362.4	-86.5	24.9	40
3rd	50.8	66.5	-86.5	24.9	40	9.2	-4.9	-59.6	66.5	-86.5	24.9	40
4th	-8.4	-7.4	-86.5	24.9	40	9.2	-4.9	-59.6	-8.4	-7.4	-86.5	24.9
5th	-29.1	-42	40	43.6	-14.3	13.6	-54.1	-31.6	-29.1	-42	40	43.6
6th	-6.4	9.2	12.7	-14.3	13.6	-54.1	-31.6	-31.6	-6.4	9.2	12.7	-14.3
7th	-2.6	-4.9	-0.3	13.6	-54.1	-31.6	-31.6	-31.6	-2.6	-4.9	-0.3	13.6
8th	-33.2	-59.6	-217.1	-54.1	-31.6	-31.6	-31.6	-31.6	-33.2	-59.6	-217.1	-54.1
RUN/POINT 35/ 6	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1288.1		-429.3		0		-6549.1		-489.1		-82.7	
RMS	618		212.2		0		853.8		188.3		26.6	
1/2 P-P	1183.5		338.1		0		1807.1		303.4		49.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	744.7	-253	-127.6	260.5	0	0	-137.2	1089.9	-223.8	-126.3	21.6	-28.6
2nd	105.5	-3.7	-14.8	71.8	0	0	-89.3	-359.4	22.1	-63.1	-6.9	7.1
3rd	13.5	-48.8	7.9	7.4	0	0	106.7	23.8	2.8	-8.6	0.2	-1
4th	-105.5	-160.2	13.8	8	0	0	25.2	8.6	11.2	2.1	1.5	0.9
5th	191	-165.4	1.6	-5.9	0	0	-63.3	-55.2	5.2	1.9	-2.6	2
6th	7.5	-33.3	0	-1.9	0	0	-1.4	-5.5	0.2	3	-0.9	-0.3
7th	-2.9	-4.4	-1.9	3.3	0	0	-6.8	14.2	1.5	2.6	0.2	-0.3
8th	94.1	22.2	3.2	3.3	0	0	-224.3	-66.8	3.7	4.9	-0.1	-0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
35/ 6						
MEAN	-2168.9	-1008.8	-137.8	285.7	255.7	-116.3
RMS	371.1	221.9	139.9	214.6	252.5	441.8
1/2 P-P	732.4	412.4	275.5	424.1	462.8	863
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-278.4	-139.2	-134	-238.8	120.1	-279.4
2nd	-22.5	-383.5	-218.2	71.4	-7.7	110
3rd	-108	59.5	27.7	-25.3	57.8	-26.6
4th	-22.3	-14.5	-7.8	3.7	15	8.3
5th	-45.1	31.1	12.1	-30.4	68.8	-36.4
6th	-1.7	-14.5	1.7	9.5	6.6	13.2
7th	4.5	-2.2	-3.8	-6.3	-0.5	-4.1
8th	-13.2	-48.9	-8.1	92.9	10	90.6
						20.3
						-110.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
35/ 6						
MEAN	-412	-539.1	-393.9	-7116.7	-2450.9	-430.6
RMS	434.5	360	229.1	621.7	466.6	184.4
1/2 P-P	780.4	721.9	595.3	1498.1	1195.5	298
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	250.1	-431.5	160	-317.4	-407	278
2nd	-140.6	230.9	-107.8	169.1	98.4	-59.8
3rd	59.4	156.2	36.8	195.6	14.7	59.7
4th	-40	2.1	-69.1	10.4	-36.2	-197.9
5th	-109.6	50.7	-104.2	47.6	-191.1	97.8
6th	5.9	-36.5	1.4	-36.4	-13.6	-27.7
7th	20.9	-15.8	9.1	-15.7	6	-14
8th	2.4	28.9	-1.6	160	226	62.3
				-72.8		1.7
						3.5

RUN/POINT 35/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3683	811.9	-5553.2	-1442.8	-3699.7	-28.7	-5870.1	1202.4	-2769.9	1033.6	-703.9	468.7
RMS	667.2	428.9	1311.8	-355.7	780.8	-445.3	1574	373.4	1288.1	276.6	821.7	95
1/2 P-P	1198.2	157.8	2236.1	23.3	1394.4	-90.1	2589.1	71.7	2076.9	45.2	1367.5	-28.4
HARMONIC		24.1										
	1st	24.1	811.9	1084.2	-984.6	-28.7	1819.1	1202.4	1461.2	1033.6	1035.2	468.7
	2nd	-19.6	428.9	29.6	-355.7	-445.3	-20.2	373.4	-17.4	276.6	7.2	95
	3rd	93.1	157.8	-58.9	23.3	-90.1	29	71.7	29.9	45.2	11.6	-28.4
	4th	-13.7	-26.8	11.9	3.4	-39.3	7.8	3.2	0.6	-15.6	-41.2	-116.4
	5th	-41.4	-20.9	63.2	22.9	-64	12.8	51.9	11.6	20.9	37.7	-107.3
	6th	5	15.7	-9.9	-19.2	-10.6	14.5	17.3	12.4	9.2	-8.9	-19.6
	7th	-1	-2.2	20.8	12.7	-10.4	11	22.6	5.1	15	-4.5	-6.2
	8th	-35	-58.3	-99.5	-37.8	-31.5	-111.3	-42.3	-89.9	-42.6	-49.6	-19.6
RUN/POINT 35/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1368	193.1	-391.5	274.4	0	0	-7112.6	1303.8	-442.1	-242.6	31.4	-20
RMS	589.8	-0.4	217	78.5	0	0	1359	-342.3	194.8	1.9	-1.9	6
1/2 P-P	1140.2	-57.7	340.8	8.4	0	0	2236	11.2	316	-0.3	1.5	0.3
HARMONIC												
	1st	754.9	193.1	-109.9	274.4	0	-1345.9	1303.8	-242.6	-107.3	31.4	-20
	2nd	20.2	-0.4	3.9	78.5	0	84.3	-342.3	1.9	-70.4	-1.9	6
	3rd	-7.6	-57.7	1.8	8.4	0	76.4	11.2	-0.3	-4.5	1.5	0.3
	4th	-66	-141.6	18.9	10.2	0	27.9	24.7	20.6	5.3	2.7	2.2
	5th	36.6	-176.5	-1.8	-3.8	0	-76.2	-26	3.7	-1.3	-1.9	1.1
	6th	-9.2	-43	0.5	-0.9	0	-3.8	-7.7	-0.9	1.1	-0.5	-0.3
	7th	-6.9	-10.4	-2	1.1	0	4	14.8	1	1.1	-0.8	-0.2
	8th	51.1	21.2	3.3	3.8	0	-96.2	-41.2	3	5	0.4	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
35/ 5												
MEAN	-3520.2	-1845.3	-481.8	142	147.1	-207.8						
RMS	450.5	262.6	140.6	203.3	241.3	444.8						
1/2 P-P	901.4	521.5	284.9	472.6	506.6	825.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	346.6	162.5	57.2	-73.9	145.7	-179.8	69	23.8	324.8	-225.7	112.3	-406.3
2nd	78.2	-445.6	-255.3	-54.6	11	69	23.8	324.8	-225.7	112.3	112.3	264.3
3rd	-185.6	100.9	50.9	2.2	68.7	-28.3	23.8	324.8	-225.7	112.3	-35.7	5.9
4th	-22.4	-31.3	-16.3	7.4	16.3	16.2	23.8	324.8	-225.7	112.3	184.8	33.5
5th	-10.6	42	16.3	-14.4	38.6	-44.5	23.8	324.8	-225.7	112.3	-8.8	3.6
6th	-6.2	-10.6	-5.5	7.9	11.9	9	12.3	324.8	-225.7	112.3	-24.3	3.6
7th	5.9	-0.2	-0.8	5.5	1.9	-3.2	-3	324.8	-225.7	112.3	-8.2	-5.2
8th	-14.9	-48.4	-7.6	12.8	20.3	91.6	87.5	324.8	-225.7	112.3	-5.2	2.1
											6.8	-113.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
35/ 5												
MEAN	-363.6	-397.7	-176.9	-7737	-2525.3	-389.9						
RMS	414.3	336.9	218.1	1118.4	361.7	188.5						
1/2 P-P	821.1	731.6	575.4	1816.7	795.5	308.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	252.5	-398	152.2	-299.6	9	-82.4	-902	-1221.6	-402.7	-32.1	97.9	-236.8
2nd	-57.5	270	-17.7	192.2	5.5	43.7	-59.2	363.8	24.2	-60.9	-3.1	70.2
3rd	127.3	82	116.2	132.6	105.9	115.1	0.5	-73.8	31.7	66.3	1.1	2
4th	-46.6	-15.2	-95.4	-23.7	-103.6	14	30.2	20.3	-119.1	-149.5	17.5	5.3
5th	-62.7	80.4	-52.3	72.6	-50.4	25.5	3.6	-60	-42.8	118.6	-1.3	4
6th	-1.1	-33	8.6	-23.3	31.8	-19.5	11.4	-2.5	-12.3	-1	0.3	-2
7th	20.3	-10.8	4.1	-13.4	-5	9.7	10.9	13.3	-18.1	-10.2	2.5	-1.4
8th	10.5	33.8	36.2	137.2	13.9	147.2	-98.5	-38.3	97.3	33.6	1.7	4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
22/15												
MEAN	68.7		-3782.3		123.8		-4430.5		-1450.6		-588.3	
RMS	256		2488		259.8		2682.8		2283.5		1656	
1/2 P-P	556.4		4119.4		564.4		4492.9		3909.2		3159.5	
HARMONIC												
1st	51.4	15.2	-1360	-3162.1	-30.4	35.3	3426.1	-1435.2	2933.4	-1185.4	1938.8	-1030.6
2nd	48.3	260.4	-262.9	-451.6	-72.6	-275.8	286.1	498.5	239.5	398.4	223.6	167.1
3rd	-115.6	-124.5	-98	-105.9	-108.7	132.8	-108.3	111.6	-69.8	88.3	90	20.8
4th	48.6	17.2	20	67	51.5	5.4	37.6	-25.3	50.4	-124.1	90.1	-613.8
5th	72.2	-58.1	-52.1	112.1	61.8	46.2	-120.2	-51.4	-44.4	-17.4	242.1	160.9
6th	-24.9	11.8	40.5	-5.7	22.5	-13.6	-22.5	3.3	-13.3	-1.1	17.3	26.6
7th	-7.5	3.6	9.7	9.3	-2.6	9.1	2.2	23	-6.2	15.5	-26.8	-18.2
8th	-20.8	-93.5	-350.2	-141.5	-23.3	-62.9	-367.7	-152.4	-313.7	-161.9	-156.3	-77.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
22/15												
MEAN	-1585.6		-469.3		0		-5637.5		-543.3		-81.4	
RMS	1389.3		216.9		0		2387.2		202.5		22.3	
1/2 P-P	2925.2		359.5		0		3984.2		345.7		43.1	
HARMONIC												
1st	1353.9	-949.6	-175.5	232.2	0	0	1242.5	3065.5	-200.7	-180.3	22.3	-13.3
2nd	224.7	9.5	-55.5	74	0	0	-183.4	-409.7	73.6	-52.2	-14.8	7.9
3rd	188.2	-4.6	12.4	6.2	0	0	102.8	130.9	15.1	-17.5	0	-2.2
4th	57.2	-833.6	4.8	20.5	0	0	-19.2	3.4	3.8	14.7	-0.6	1.8
5th	376.8	254.4	-2.9	0.7	0	0	50.4	-115.8	-4	-1.8	-1.6	1.2
6th	44.7	11.2	1.6	-3	0	0	30.2	10	-2.7	3.4	-0.4	-0.4
7th	-10	-18.6	-1.1	-0.2	0	0	-7.7	21.2	-1.4	0.7	-0.9	-0.5
8th	142.8	57.2	-0.1	8.2	0	0	-336.1	-167.8	-1	10.3	1	-1.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	127.1		408.7		-612		472.7		449.4		41.5	
RMS	411.9		238.1		208		246.7		287.4		522	
1/2 P-P	855.1		463.1		508.5		599.1		653.6		1015.9	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	-454.9	117.2	-276.9	20.9	56	-231	73.3	-274.5	102.6	-323.6	217.3	-583.6
2nd	9	-284.8	15.3	-157.6	-17.8	63.9	-23.6	77.3	-39.8	102.2	-207.1	217.5
3rd	82.9	-101.8	50.7	-59.6	-20.2	10.9	-24.6	14.3	-38.9	37.7	-123.8	157.5
4th	42.8	3.9	25.6	-1.2	-14.9	-20.8	-16.6	-23.3	-31.5	-21.7	-41.2	10
5th	-47.4	-52.5	-14.9	-19.1	47.9	55.6	56.1	64.3	69.6	80.8	-3.6	5.8
6th	23.1	-12.6	11.6	-6.3	-16.6	1.4	-20.1	2.7	-25.4	6	19.8	4.8
7th	-0.4	-8.5	4.6	-4.7	10.6	4.4	11.1	5.1	8.9	9.1	-7.6	-10.6
8th	-11.3	-72.3	-14.6	-12.5	-25.9	118.5	-27.3	138	-14.5	135.3	72.8	-155.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-440.4		-729.6		-741.7		-6177.7		-2532.9		-475.2	
RMS	591.2		542.2		353.5		2089.5		1136.8		196.7	
1/2 P-P	1159.3		1155.5		980.4		3623.1		2752.8		345.9	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	256.8	-538.8	175.1	-407.3	-26.7	-126.3	-2466.9	1481.6	-791.3	757.2	164.6	-198.9
2nd	-361.1	179.5	-325.5	131.5	-173.4	51.2	249.5	339.6	237.4	-117.9	-73.8	66.3
3rd	-117.9	322.5	-157.4	325.3	-134.8	227.2	116.2	-98.5	-210.8	26.1	-8.7	-3.1
4th	36.3	35.6	73.8	77.9	27.8	78.4	-37.1	44	266.6	-891.2	4.8	21.4
5th	-101.6	-185	-94.1	-242.4	-15.8	-163.6	123.8	66.9	-290.2	-251.3	2	-5.9
6th	46.7	-19.6	7.4	-51.4	-6.7	-51.2	-26.8	-10.4	15.3	15.6	3.5	-5.5
7th	10.4	-18.9	-6.7	19.1	-48.6	17.8	-7.9	18.1	1.4	-13.6	1.2	-1
8th	-32.8	37.4	-30	209.8	-25.7	249.4	-358.2	-172.7	357.2	148.7	-0.1	6.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-539.5	-4355.8	-501.5	-4906.2	-1880.2	-743.2						
RMS	294.7	1872.8	291.5	2108.5	1794.9	1340.2						
1/2 P-P	600.5	3083.1	637.2	3397.4	2951	2493.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	201.2	-106.9	-2338.3	46.4	185.6	2698.1	-1084.4	-885	1581.5	-820.8		
2nd	18.8	313.1	-450.6	-31.6	-329.4	272.8	492.9	388.4	220	149.8		
3rd	-83.9	-80.9	-66.5	-59.9	107.9	-65.3	98.4	73.3	76.1	-5.5		
4th	21.3	8.6	61	20.6	6.7	30.9	-36	-114.3	-91.7	-513.5		
5th	3.1	-2.9	44.9	15.1	-12.2	-49.3	-7.2	-2.2	100.1	21.2		
6th	-30	13.9	1.2	26.4	-15.1	-19.8	3.1	-1.5	9.4	20.1		
7th	-5.8	8.4	1.5	2.9	3.2	-12.1	17.6	7.2	-18.3	-32.8		
8th	-15.3	-64.8	-61.5	-24.8	-45.1	-236.8	-68.3	-80.3	-100.6	-31.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1636.4	-459.5	0	-6217.2	0	-527.3	198.5	23.8	45.2			
RMS	1117.4	214.8	0	1766.5	0	323.3						
1/2 P-P	2283.9	338.4	0	2845.8	0							
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1129.2	-757.3	238.8	0	0	934.6	2246.3	-170.8	22.3	-19.7		
2nd	224.6	3	72.1	0	0	-157.5	-421.1	-52.7	-12.7	7.2		
3rd	153	-30.1	4.1	0	0	102.2	94.5	-16.1	-0.4	-2.4		
4th	-177	-674.9	14.4	0	0	6	-15.7	10.3	-2.3	1.4		
5th	137.1	56.6	-1	0	0	-15.6	-36.4	-8	-1	1.2		
6th	28.1	-1.9	-0.2	0	0	22.7	15.8	0.6	-0.7	-0.3		
7th	-5	-19.7	-0.1	0	0	-9.9	-2.3	0.8	-0.5	0.1		
8th	96.8	26	5	0	0	-221.7	-83.6	6	0.6	-1.5		

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb
Blade 1, $r/R=0.570$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.167$

MEAN	-471.5	34.5	-678.5	399.3	387.8	-22.1
RMS	477.4	286.9	197.7	234.7	267.7	498.7
1/2 P-P	889.5	527.5	438.2	518.9	565.2	902.5

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-555.2	-31.2	-333.3	-72.8	52.6	-236.9	68.6	-280.7	102.1	-320.3	246.2	-543.6
2nd	39.8	-360.8	35.1	-204	-23	62.7	-29.4	76.6	-50.6	107.4	-219.4	230
3rd	28.9	-80.7	21	-49.4	-3.7	1.3	-5.6	3	-12.7	21.1	-54.8	147.6
4th	13.5	-1.2	10.6	-3.8	-3.2	-14.5	-4.1	-16.5	-13.1	-12.5	-28.4	19
5th	-3.3	24.4	2.2	10.4	15.4	-21.8	18.5	-24.1	19.3	-24.3	-12.1	9.3
6th	20.7	-15.4	9.9	-6.8	-18.7	6	-22.9	8.5	-28	12.2	20	-0.7
7th	-5.7	-4.8	1.4	-2	15.2	5	16.3	5.1	15	8.6	-12.7	-15.5
8th	-9.3	-46.2	-7.6	-6.2	-9.6	79.3	-9.2	92.4	-2.1	91.3	38	-110.7

RRUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
22/14	Blade 1, $\tau/R=0.725$	Blade 1, $\tau/R=0.800$	Blade 1, $\tau/R=0.900$	Blade 1, $\tau/R=0.144$	Blade 1, $\tau/R=0.570$	Blade 1, $\tau/R=0.400$

MEAN	-448.5	-695.6	-658.8	-6784.6	-2573.8	-465.2
RMS	549.2	476.5	312.9	1506.5	900.3	193.2
1/2 P-P	976.7	1009.6	902.9	2548.8	2002	319.4

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	270.6	-510.4	182.4	-388.3	-13.4	-118.3	-1683.3	1170.2	-645.2	617.7	154.8	-204					
2nd	-322.1	191.3	-271.3	134.6	-133.7	41	217.1	409.2	235.7	-100.4	-60.6	68.5					
3rd	-63.7	324.4	-101.7	342.8	-82.8	241.3	97.3	-91.4	-135.2	65.8	-11.2	-1.9					
4th	14	39.4	29.8	74	-5.9	80.6	13.1	46.9	-62.4	-767.2	-6.2	15.7					
5th	-5.4	23.5	29.2	11	56	14.6	50.1	-1.5	-132.5	-32.4	7.3	2.5					
6th	49.5	-26.1	19.8	-52.5	14.5	-54	-1.8	-2.1	1	4.7	2.8	-3.3					
7th	17.1	-11.9	11.2	23.8	-18.6	27.7	-17.4	-15.7	15.9	15.3	0.7	-0.7					
8th	-16	24.8	-5.2	150.9	-16.8	186.9	-224.7	-86.3	225.3	67.4	0.4	3.3					

RUN/POINT 22/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1048.8		-4720.7		-1024.3		-5189.6		-2144.6		-825.5	
RMS	330.5		1100.8		311.5		1324.2		1139.8		909.1	
1/2 P-P	661.6		2045.2		602.4		2427.6		2043.4		1851.3	
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	104.1	-290.4	-355.4	-1425.1	216.1	86.8	1752.3	-310.3	1519.6	-247	1114.2	-402.5
2nd	45.4	326.6	-205.8	-375	-51.9	-354.2	228.6	436.7	188.6	340.6	179.5	132.2
3rd	-32.3	-33.3	-85.1	-34.6	-13.4	50.5	-28.8	98.2	-17.2	72.6	37.3	-1.2
4th	27.8	0.7	28.3	41	26.5	-5.1	24.3	-23.7	25.1	-83	9.4	-385.5
5th	-8.7	11.7	12.1	14.8	-1.2	-24.2	-12	8.7	-0.3	3.4	45.2	-8.9
6th	-13.8	11.4	13.4	8.1	8.9	-12.6	-9.4	6.9	-8.2	0.5	-9.4	19.4
7th	-7	3.2	26.1	-5.3	-0.7	8.6	39.1	3.3	27.8	1.6	-5.6	-15.9
8th	-30.1	-72.4	-195	-15	-24.8	-48.2	-214.9	-32.6	-185.2	-43.4	-96.8	-17.1
RUN/POINT 22/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1643.8		-445.6		0		-6539.8		-510		-87.2	
RMS	798		210.1		0		965.4		192.2		21.4	
1/2 P-P	1767.5		335		0		1826.8		307		41	
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	834.2	-454.4	-144.4	247.3	0	0	165	1261.1	-214.3	-149.7	16.9	-21.3
2nd	175.4	-3.1	-34	68.9	0	0	-121.6	-372.1	43.8	-55.1	-10.4	6.7
3rd	79.4	-30.9	10.9	4.5	0	0	85.8	59.3	8.7	-14.6	0.1	-1.6
4th	-21.1	-520.9	3	5.5	0	0	-11.8	-0.3	2.8	2.1	-1.4	0
5th	41	-2.4	-4.8	-2.2	0	0	-38	-2	1.3	-7.1	-1.3	0.9
6th	5.5	-10.2	0.4	-1.4	0	0	3.9	9.7	-2.2	2.6	-0.6	0.1
7th	-28.1	-5.2	-0.7	1	0	0	43.3	-8.2	0.7	1.3	-0.5	0.1
8th	86.4	19.5	1.7	4.7	0	0	-197.5	-46.8	1.8	5.3	0.4	-1.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
22/13												
MEAN	-991.7	-289.4	-733.2	339.2	336.8	-89.2						
RMS	571.4	338.7	184.5	219.2	253	477.4						
1/2 P-P	1027.1	622.3	366.5	436.4	471.3	889						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-713.7	61.1	-428.7	-19.4	37.9	-224.7	50.5	-266.8	88.9	-308.5	245.2	-536.3
2nd	11.8	-361.7	19.1	-204.4	-12	65	-16.2	79	-31.1	110.9	-169.3	242.3
3rd	-17.2	-23.9	-5.7	-18	9.9	-7.8	10.7	-8.1	10.7	3	1.3	97.5
4th	19.2	-7.2	13.8	-5.3	-5	-7.2	-5.6	-7.8	-15.2	-2.5	-26	21.3
5th	5.9	32.4	6.3	13.2	8.8	-31.7	10.8	-35.1	9.4	-36.9	-12.7	10.7
6th	8.3	-13.3	5.3	-5.3	-3.5	8.2	-5.4	10.3	-6.9	13.9	11	-5.8
7th	-0.6	-9	2.8	-3.4	6.5	8.6	7	9.3	6	13.8	-1.1	-15.3
8th	-13.2	-38.9	-8	-4.6	0.4	68.1	2.7	79.8	7.5	77.8	21.9	-97.7
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400						
22/13												
MEAN	-462.7	-668.6	-582.9	-7141.9	-2588.2	-452.3						
RMS	504.6	422.4	271.1	710.4	659.2	187.3						
1/2 P-P	924.8	880	801	1530.3	1595.5	297						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	262.6	-500.1	177.6	-374.1	-799.2	372	-474.1	406.4	135.1	-212.6		
2nd	-253.3	221.5	-210.4	164.1	172.7	327.2	170	-96.8	-45.1	65.6		
3rd	-26.5	247.2	-63.6	270.5	57.5	-90.9	-54.4	74	-8.8	-1		
4th	19	33.8	23	66.4	-14.1	29.2	108.2	-560.1	-3	5.1		
5th	2.6	41.4	34.3	25	14.7	-22.5	-60.8	16.6	4.5	4.3		
6th	28.4	-29.4	16.1	-50.2	-5.6	-2.6	-0.7	-6.7	2.1	-3.4		
7th	13.9	-16.7	-0.9	20.6	33	-17.1	-31.2	18.6	0.8	-2.4		
8th	-9.7	20.7	12.1	128.4	-202.5	-37.5	195.8	21.3	0.7	2.1		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
22/12												
MEAN	-2495.1		-5335.1		-2480.9		-5849.7		-2760.7		-1022.1	
RMS	398.5		553.9		375		773.9		661		536.4	
1/2 P-P	745		1366.4		722.1		1571.3		1336.7		1140.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	307.9	-176.4	189.9	-628.6	36.5	288	952.5	268.7	825.1	254.4	684.5	-29.8
2nd	-51.8	393.3	-44.5	-344.5	59.9	-398.1	38.7	385.8	37.1	293.3	76.6	114
3rd	72.9	123.5	-91.9	-15.1	137.5	-42.1	-17.2	99	-8.5	65.5	7.9	-28.9
4th	-9	-13	52.9	38	-9.1	-17.5	5.3	-4.5	-15.9	-22.8	-119.5	-138.4
5th	-45.2	-19.7	59.3	21	35.9	-59	-22.8	89.8	-9.9	46.6	74.3	-115.1
6th	-5.1	5	4.5	6.4	1.4	-10.3	6.2	19.3	4.7	8.6	-3.1	-0.5
7th	-2.3	-1.3	-0.6	-23.5	0.9	4.7	13.3	-24.2	10.3	-21.9	-10.7	-12.1
8th	-33.4	-49.4	-80.9	-5.1	-23.9	-33.6	-100.1	-14.5	-82.1	-18.2	-47.9	1.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
22/12												
MEAN	-1676.2		-406.9		-2294.8		-7075.5		-464		-95	
RMS	494.9		207.2		421		538.8		187.1		23.5	
1/2 P-P	1149.8		320.1		792.7		1190.8		297.4		38.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	556.6	-134.5	-115.9	260.5	-164.3	310.1	-362.4	526.5	-226.7	-120.5	17.3	-26.9
2nd	94.9	0.3	-14	63	-115.7	412.2	39	-324.5	18.1	-58.5	-4.8	5.3
3rd	16.1	-59.3	-0.6	1.1	-63.7	-171.1	94.6	42.8	-4.2	-4.5	2.2	0.9
4th	-170.6	-165	7.3	13.2	-17.2	-15.6	-0.7	-11.6	7.2	5.1	-1.6	1.4
5th	75.8	-189.4	-2.8	-0.8	70.9	12.6	-76.5	-16.6	1.8	-4.3	-0.8	0.5
6th	-0.9	-26.1	2.7	-0.6	-0.2	12.1	-2.7	-5.4	-2.1	1.3	-0.5	0.3
7th	-15.2	15.2	-1.8	0	4.9	0.5	21.3	-35.9	0.7	2.8	-0.4	0
8th	44.1	11.6	2.6	3.9	-21.6	-34.1	-88.6	-24.2	2.6	5.1	-0.4	-1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2416	-1171.6	-874	183.9	211.8	-206.3						
RMS	521.7	313.1	181.2	214.9	245.5	448.9						
1/2 P-P	1021.6	595.2	350	409	470	848.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-548.7	-138.9	-322	-139.2	51.2	64.6	-249.3	100	-276.8	283.1	-445.6	
2nd	102.5	-415.2	74.1	-236.5	-9.6	-12.4	78.5	-32.5	115.4	-166.1	259.6	
3rd	-158.8	55.4	-85.2	23.7	49.6	57.5	-23.3	75.9	-23.1	140.3	53.9	
4th	-22.1	-25.6	-9	-14.3	6.4	7.7	11.3	5.9	19.3	-7.9	29.2	
5th	-16.1	57	-2.8	22	32.4	38.1	-60.5	38.4	-68.5	-16.9	5.6	
6th	0.1	-8.1	2.7	-3.8	6.2	6.1	9	5.6	11.6	-1.6	-7.3	
7th	-1.5	-7.1	0.7	-4.1	4	4.1	3.3	2.3	7.8	-1.5	-9.5	
8th	-11.2	-28.1	-2.3	-4.5	10.5	13.4	55.3	14.5	54.3	3.7	-73.4	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-434.9	-535.7	-360.9	-7702.7	-2609.6	-412.4						
RMS	447	360.7	235.9	358.4	387.7	183.2						
1/2 P-P	817.5	656	627.3	902	955.1	288.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	262.8	-412.1	169.6	-298.1	13.3	-72.8	-244.1	-311.7	157.9	109.4	-225.3	
2nd	-159.7	257.6	-106.3	186.1	-35.8	55.3	321.5	112.9	-81.5	-19.2	61.2	
3rd	84.1	184.4	55	231.9	48	182	-84.5	36.6	75	3.9	7.4	
4th	-20	-3.3	-53.5	4.5	-74.2	39.3	10	-179.1	-152.5	0.7	6.8	
5th	-57.3	114.6	-40.6	116.3	-31.4	72.5	-85	-74.9	158.8	4.3	3.5	
6th	9.2	-32.2	5.8	-34.1	24.3	-34.9	20.1	-7.1	-27.5	1.9	-1.1	
7th	18.9	-12.9	4.9	4.9	-8	23.3	-33.5	-7.8	33.6	1.7	-1.3	
8th	4.4	16.8	23.8	94.3	1.9	114.3	-13.1	75.6	-1.3	1.8	1.5	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb												
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325												
22/11																							
MEAN	-3714.3		-5758.4		-3721.5		-6303.6		-3197.9		-1167.3												
RMS	451.6		557.4		466.9		721.9		604.5		395.2												
1/2 P-P	762.7		1052.5		882.1		1212.2		995.8		823.1												
HARMONIC																							
1st		211		-41.9		631.7		-189.7		190.5		495.8		749.2		416.5		653.7		415.1		255.1	
2nd		-163.6		507		103.8		-362.7		-515.8		-114.6		412.3		-86.6		307.9		-14.5		123.4	
3rd		114.1		233.1		-72.8		1.4		-88.9		-5.7		85.7		2.4		52.8		-9.1		-39.4	
4th		-21.4		-23.9		58.5		34.5		-35		11.2		3		-14.6		-3.3		-138.4		-54.6	
5th		-57.4		15.3		72.1		-26.6		-78.4		53.5		104.7		31		55.4		-19.1		-146.2	
6th		3.9		8.2		-0.4		-14.7		-8.7		13.7		11.5		11.8		2.7		-2.8		-3.6	
7th		-1.9		3		-17		21.4		1.3		-5.2		24.1		-9.7		16.4		-18.4		-5.2	
8th		-11.8		-44.5		-27.7		-16.6		-23.5		-33.3		-13.1		-26.1		-14.7		-14.7		0.8	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb												
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1												
22/11																							
MEAN	-1698.6		-368.6		-3508.3		-7435		-416.4		-97												
RMS	366.4		211.1		487.1		649.9		190.1		21												
1/2 P-P	883.1		319.3		877.6		1306.2		295.9		34												
HARMONIC																							
1st		374.1		76.5		-100		270.3		196.1		-798		76.9		-237.7		-103.5		13.1		-25.3	
2nd		19.3		8.2		-1		72.6		529.5		178.6		-350.2		1.5		-66.1		0.3		4.9	
3rd		-10.6		-71.5		-9.3		5.7		-277.2		82.9		27.3		-3.6		4.1		3.9		2.5	
4th		-194.2		-44		9		20.8		-31.7		6.1		-13.9		13.9		16.3		-0.5		3.4	
5th		-83.2		-228.1		-3.3		3.2		-24.4		-102.3		21.2		-1.5		-4.2		0.3		0.2	
6th		-3.2		-24.3		3.9		-1.8		10.8		4.3		-7.9		-3.2		2.7		0		0	
7th		-3.4		-8.4		-3.8		0.7		-3.4		-2.9		13.9		0		4.7		-0.6		0	
8th		20.8		9.6		2.9		4.1		-30		-37.4		-13.3		3.1		4.7		-0.4		-0.3	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3613.8	-1913.6	-988.3	58.5	114.2	-298.5						
RMS	536.3	312.2	173.5	206.6	246.5	468.8						
1/2 P-P	967.5	563	335.1	397.8	472.2	891.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-416.5	-54.2	-237.2	-81.7	68.8	-181.5	83.7	-216.7	119.4	-242.7	324.1	-395.5
2nd	222.6	-514.1	147.8	-293.7	-0.1	69.4	-1.1	84.9	-23.1	129.8	-137.4	308.7
3rd	-253.3	93.9	-138.6	44.1	74.9	-23.5	88.1	-26.8	120	-32	241.4	27.5
4th	-32.3	-33.2	-14.2	-18.5	11.6	14.1	14.2	17.4	14.9	25.7	2.7	33.7
5th	5.9	73.6	6.4	29	17.1	-69.3	20.2	-79.3	15.7	-91.4	-23	4.3
6th	-7	-9.2	-0.2	-4.6	14.2	7.3	15.6	9.4	16.1	11.4	-12.4	-8.7
7th	-2.8	-3.8	0	-2.4	5.1	2.8	5.4	3.1	3.1	7.3	-4.4	-6.2
8th	-0.7	-33.3	3.4	-6.4	1.7	51	3	59.9	3.3	60.3	16.6	-72.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-389.7	-411.8	-161.3	-808.3	-2642.5	-370.2						
RMS	445	362.7	233.5	612.2	298.5	184.5						
1/2 P-P	874.3	712.9	642.6	1247.4	724.5	285.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	263.8	-378.6	165.7	-274.5	30.3	-66.6	222	-717.5	-203.4	19.3	92	-233.7
2nd	-43.5	320.3	21.3	228.3	51.9	57.9	-130.4	344.1	36.2	-75	-5.5	65.9
3rd	167.9	126.7	151.8	189.2	133.5	160.3	24.6	-72	43.5	80.4	13.9	5.3
4th	-19.9	-9.6	-69.6	-16.1	-81.9	25.7	34.8	6.5	-214	-31.4	6.8	14.8
5th	-20.9	156.3	1.6	160.5	-15.9	88.2	-14.6	-107.7	14.9	208.7	4.5	0.9
6th	-4.4	-36.1	7.9	-26.2	35.4	-24	12.2	5.5	-15.3	-12.1	3	-2.3
7th	18.3	-12.9	6.5	-12.5	0.9	10.7	-12.8	14.9	12.4	-17.4	3.5	-0.8
8th	7.2	18.5	11.8	96.7	-14	109.3	-31.5	-11.5	26.6	10.5	2	2.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$		
15/18													
MEAN	2997.4	-1552	3189	-2383.8	460.6	-17.3							
RMS	799.8	8056	701.8	6942	5900.7	4087.5							
1/2 P-P	1577.7	12045.6	1245.4	10397.8	8857.8	7282.4							
HARMONIC													
	1st	414.4	710	-7098.7	-8739.4	-608.4	145.4	6551.7	-7134.1	5658.2	-5981.7	3643.4	-4090.5
	2nd	560	153.4	-1275.3	-1000.1	-595.1	-154.1	1173.3	939.9	940.2	797.3	706.3	396.6
	3rd	-285.8	-340.4	-171.6	-343.4	-306	276.5	-92.5	127	0.9	133.2	490.2	147.3
	4th	100.2	53.7	74.7	92.8	108.1	55.9	122.4	-72.9	103.1	-323.7	-10.6	-1483.8
	5th	155.7	102.6	-58.2	36.8	-37.9	82.3	-160.9	-58.6	-94.7	2.5	124.7	325.5
	6th	-42.5	3.3	26.2	32.9	47.7	-2.4	-48.8	-62.4	-39.3	-31.4	-58.1	92.8
7th	-16.6	8.8	-6.7	-24.8	1.3	18.8	23.7	18.3	9.9	0.3	-13.7	-75.5	
8th	30.3	-94.6	-303.2	-275.4	14.3	-99.7	-284.4	-301.2	-231.5	-289.2	-90.3	-160.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1			
15/18													
MEAN	-1491.4	-499.2	3193.8	-3565.2	-619.2	-50.4							
RMS	3316.3	311.1	603.9	7765.2	292.3	39.1							
1/2 P-P	6513.8	562.3	1146.9	11859	529.9	79.2							
HARMONIC													
	1st	2447.7	-3184.7	-361.4	176.5	-247.7	-460.3	8183	-117.1	-357.8	32.6	31.4	
	2nd	613.8	149.3	46.4	36.5	496.5	149.5	-1228.8	-959.2	-10	-6.2	-4.1	4.8
	3rd	776.3	108.8	108.8	54.6	240.9	278.8	108.5	317.7	82.4	-95.4	-15.9	-14.8
	4th	-185	-2074.3	-62.3	73.3	102	30.6	89.8	-53.1	-81.9	61.5	-14	12.5
	5th	264.5	468.3	-20.2	-36	-101.6	-42.2	68.7	-53.3	30.8	-16.7	2	9.3
	6th	-53.6	123	9.8	-0.6	-47.5	1.5	-9.2	-8.3	-2.4	1	0.4	0.6
7th	-36.6	-82.3	-2.9	-2.6	17.2	1.2	41.6	-9.6	1.8	0.5	0.6	0.6	
8th	146.9	122.1	-6.8	10.1	33.7	-103.2	-266.7	-300	-6.2	9.2	2.2	-3.9	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
15/18												
MEAN	3132.1	2267.4	1189.5	880.4	714.2	334.5						
RMS	522.7	301.3	218	330.1	387.9	643.7						
1/2 P-P	931.5	543.2	540.5	817.3	896.3	1337.5						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-11.8	-73.9	-13.7	-73.4	102.6	-203.5	141.1	-320.1	178.7	-392.7	258.1	-745.9
2nd	-583	-137.1	-340.5	-72.4	-119.5	15.8	-19.7	71.6	-6.9	83.9	-157.3	141
3rd	293.7	-219.3	170.2	-123	5.2	-38.4	-97.3	26.3	-141.1	60.2	-288.5	195.5
4th	83.6	40.4	46.4	11.6	-1.3	-26.2	-43	-66.5	-71.7	-70.7	-45.2	-23.4
5th	59.4	-128.1	23.5	-47.5	-30.7	51.3	-80.1	137.1	-84	169.2	-14.3	17.1
6th	46.5	2.9	19.9	2.3	-14.2	-2.8	-50	-14.5	-61.3	-14.6	48.2	15.1
7th	-8.4	-22.9	1.9	-5.8	15.8	18.3	20.8	34.5	21.1	35.2	-5.2	-42.3
8th	17.3	-90.1	-17.3	-22.2	-73.2	74	-107.4	144	-86	144.5	147.3	-139.1
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
15/18												
MEAN	-394.2	-884.6	-1097.3	-3790.3	-2458.8	-502.3						
RMS	834.2	875.1	618	7459.1	2882.1	307.8						
1/2 P-P	1811.3	1918	1562.7	11113	5788.5	551.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	311.1	-734.3	214.8	-606.1	-64	-240.2	-7247	7486.2	-1751.5	2427	364.5	-135.6
2nd	-583.6	28.5	-664.3	-3.1	-472.4	-13.4	1301	801.2	619	-56.9	35.1	3.1
3rd	-134.5	397.7	-176.2	351	-182.2	190.3	287.1	-110.1	-769.5	-117.4	-132.7	-41.5
4th	155.6	35.1	291.2	130.5	209.4	101.8	6.7	93.4	179.2	-2442.6	-50.1	104.5
5th	210.3	-377.7	268.1	-505.2	268.6	-318.5	66.4	95.1	-123.6	-523.5	42.1	23.6
6th	63.5	29.4	-7.4	-49.1	-43.9	-82.5	-17.3	-42.5	-55	81.8	10.3	-3.9
7th	4	-8.2	-9.4	103.8	-57.5	63.1	24.6	-38.2	-20.7	57.4	3	2.7
8th	-53	15.3	-138.7	203.3	-138.7	278.5	-270.2	-321.1	319.5	323.1	-6.5	7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1447.7		-3078		1588.2		-3792.3		-801.2		-470	
RMS	608.5		5343.5		510		5196.2		4405.2		3041.6	
1/2 P-P	1014.9		8206.8		807.5		7994.8		6874.1		5451.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	513.7	462.2	-3939.2	-6337.3	-341.3	342.6	5864	-4252.4	5033.3	-3521.5	3232	-2533.3
2nd	239.8	290.3	-714.4	-857.4	-269.6	-325.8	698.3	917.5	564.3	752.1	464.5	352.5
3rd	-168.7	-264.2	-86.2	-208.8	-224.3	196	-202	95.6	-132.1	88	190.1	104.4
4th	68.3	39.3	33.5	60.9	80.6	38.9	71.9	-38.3	112	-213.8	257.9	-1031.8
5th	58.4	47	-66.3	34	-20.2	35.3	-52.4	-52.8	-23.3	-9.6	66	187.6
6th	-33.5	5.2	2	14.1	37.5	-8.2	28.1	-6.4	20.7	5.2	-18.9	43.6
7th	-6	9.8	-13.6	26.7	7.4	1.2	26.2	58.3	13.5	37.8	-8.2	-39.1
8th	19.2	-69.9	-196.3	-218.3	7.8	-56.5	-211.7	-238.3	-172.3	-226.7	-71.6	-128.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1649		-500.2		1724.8		-5184.3		-584		-69.4	
RMS	2416.1		251.2		422.1		5044.8		235		26.1	
1/2 P-P	4813.1		409.3		723.6		7775.8		388.5		47.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2199.1	-2028	-245.6	225.7	-332.2	-172.7	3917.8	5859.3	-188	-250.8	27.5	-9.3
2nd	421.5	123.9	-59.1	99.4	165.4	320.3	-571.4	-840.4	85	-61.4	-18.6	11.9
3rd	355.9	88.8	11.8	-7.5	165.1	199.5	70.5	223.9	11.3	-8	0.3	-1.1
4th	248.1	-1467.8	1.3	28.8	64.3	29.3	34.4	-39.4	-0.9	22.1	-0.1	4.1
5th	128.3	279.9	-17.5	-0.7	-30.2	-48.1	63.2	-45.7	-2.8	-16.2	-0.1	1.5
6th	-29.2	39.2	4.2	-3.4	-41.4	4.9	1.7	0.2	-4	3.5	0.3	-0.2
7th	-34.3	-60.6	-0.2	-3	5	-7.6	45.9	26.4	-2.2	0.1	-1.1	0.4
8th	97.7	82.7	-4.1	7.4	20.7	-58.6	-170.4	-231.5	-6.3	7.2	0.4	-1.3

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RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
MEAN	202		-3981.7		296.3		-4691.9		-1627.2		-761.3	
RMS	493.2		3507.2		456.3		3519.7		2970.8		2086.2	
1/2 P-P	801.3		5437.1		719.7		5455.3		4669.9		3697.3	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	425.9	403.2	-1914.9	-4492.4	-391.8	313.2	4487.8	-1967.5	3815.5	-1602.1	2504.3	-1295.7
2nd	86	302.5	-369.6	-669.6	-97.6	-342.8	293	714.2	233.9	575.9	240.7	252.4
3rd	-111.5	-137.8	-105	-115.4	-109.1	129.2	-130	108.4	-85.2	88	112.4	47.2
4th	42.5	22.9	50.8	61.3	51.6	22.9	45.7	-0.9	56.6	-131.6	98.9	-730.4
5th	38.4	15.5	-27.4	40.1	11.6	10.4	-44.4	-27.6	-14.2	-7.1	102.2	94
6th	-26.3	5.7	18.3	5.2	29.7	-6.7	1.9	-6.7	5.1	-4.7	-3	22.1
7th	-4.7	5.9	-9.1	28.2	3.2	2.7	-3.9	57.3	-10.1	35.3	-15.3	-22.7
8th	11.3	-69.8	-248.3	-185	1.4	-54.1	-256.3	-198.5	-214.6	-192	-101.6	-103.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1724.8		-489.1		484.3		-6032.5		-559.1		-81.8	
RMS	1662.3		226.7		323.6		3173.2		209.9		29	
1/2 P-P	3405.4		372.8		647.4		4901.5		353.5		53.8	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1727.9	-1120.9	-196.9	229.8	-233	-109.3	1772.7	4050.4	-194.1	-201.6	30.1	-19.1
2nd	237.1	79.1	-60.6	80.5	9.8	341.5	-248.5	-602.3	78	-51.6	-17.6	8.3
3rd	200.2	14.7	13.7	9.3	110.3	75.5	106.8	146.5	20	-11.3	-1	-2
4th	60.6	-1031.4	1.3	21.6	40.5	11.3	3.7	-12	0.4	16.8	-1.2	3
5th	158.5	141.5	-7.8	0.7	0.5	-0.4	10.7	-50.4	-1.4	-7.9	-1.6	0.3
6th	0.6	17.6	2.9	-3.4	-33.6	5.2	28.9	-1.9	-4.7	3.1	0.4	-0.2
7th	-9.7	-40.8	-0.4	-1.3	5.2	0.1	12	30.3	-0.7	1	-1.3	0.5
8th	102.4	75.8	-2.5	6.6	-2.7	-59.7	-234.2	-208.8	-3	7	0.3	-1.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $\tau/R=0.144$	Blade 1, $\tau/R=0.167$	Blade 1, $\tau/R=0.215$	Blade 1, $\tau/R=0.280$	Blade 1, $\tau/R=0.325$	Blade 1, $\tau/R=0.570$				
15/16										
MEAN	384.1	558.6	493.4	559.9	456.8	44				
RMS	328.5	207	171.5	254.2	300.5	547.8				
1/2 P-P	642.4	395.2	322	557.3	595.7	1002.2				
HARMONIC										
1st	COSINE -157.4	SINE -187.1	COSINE 43.8	SINE -218.1	COSINE 115.4	SINE -303.4	COSINE 276.2	SINE -356.1	COSINE 276.2	SINE -607.3
2nd	-43.4	-359.4	-15.8	-27.9	-26.3	78.4	-45.9	112.5	-224.7	222.3
3rd	94.9	-97	7.9	-16.4	-24.5	14.4	-39.6	35.3	-134.1	156.6
4th	35.4	9.6	5.5	-9.7	-12.2	-23.9	-25.5	-23.4	-43.9	3.4
5th	7.9	-14.8	4.4	9.6	1.4	20	1.4	26.4	-10	7.4
6th	28.4	-1	-8	1.5	-27.7	-2.7	-33.2	-0.8	21.9	7.7
7th	-6.3	-2.3	5.7	7.6	10	9.4	10.7	10.8	-6.6	-14.4
8th	8.6	-42.7	-42	37.5	-60.5	71.6	-47.4	72	85.5	-73

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-467.9	-768.1	-769.3	-6529.8	-2657.9	-484.5		
RMS	600.4	526.4	330.6	2978.6	1245.6	205.8		
1/2 P-P	1103.4	1099.9	947.5	4760.9	2659.6	356		
HARMONIC								
1st	COSINE 308.3 SINE -550.6	COSINE 205 SINE -417.8	COSINE -31.4 SINE -129.8	COSINE -3657.8 SINE 1929.8	COSINE -1087.4 SINE 862.8	COSINE 187 SINE -194.1		
2nd	COSINE -379.9 SINE 150.8	COSINE -343.3 SINE 95.2	COSINE -192.7 SINE 18.5	COSINE 322.7 SINE 594.6	COSINE 285.7 SINE -68.5	COSINE -79.4 SINE 68.4		
3rd	COSINE -148.9 SINE 333.5	COSINE -190.3 SINE 334	COSINE -151.8 SINE 229.9	COSINE 139.9 SINE -99.6	COSINE -263.5 SINE 24.3	COSINE -11 SINE -8.4		
4th	COSINE 28 SINE 47.6	COSINE 50.3 SINE 98.7	COSINE 2.8 SINE 92.5	COSINE -1.1 SINE 4.5	COSINE 223.3 SINE -866.1	COSINE 1.8 SINE 24.3		
5th	COSINE 35 SINE -80.9	COSINE 80.4 SINE -108.4	COSINE 100.2 SINE -55.1	COSINE 51.4 SINE 27.1	COSINE -133.9 SINE -147.3	COSINE 10.2 SINE -2		
6th	COSINE 58 SINE -1.8	COSINE 28.5 SINE -44.3	COSINE 18.8 SINE -50.2	COSINE -29.4 SINE -23.7	COSINE 32.4 SINE 28.9	COSINE 5.3 SINE -3.4		
7th	COSINE 15.9 SINE -11.1	COSINE -13 SINE 20.2	COSINE -48.9 SINE 4.2	COSINE 10.3 SINE 25.9	COSINE -9.4 SINE -22.9	COSINE 1 SINE -1		
8th	COSINE -36.9 SINE 5.5	COSINE -80.3 SINE 119.9	COSINE -92.5 SINE 155.2	COSINE -244.9 SINE -211.7	COSINE 259.7 SINE 190.6	COSINE -0.9 SINE 3.7		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-473		-4323.1		-394.1		-5068.6		-1974		-868.6	
RMS	466		2688.8		449.1		2789.9		2351.8		1653	
1/2 P-P	781.1		4388.2		811.6		4489.7		3805.3		3011	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	417.7	355.6	-1246.2	-3503.6	-387	311.8	3662.2	-1223.3	3107.2	-975.7	2077.2	-878
2nd	111.3	309.8	-340.4	-562.6	-116.3	-348.5	305.1	611	244.9	493.6	209.2	212.5
3rd	-67.2	-70.9	-98.4	-60.5	-43.1	79.6	-75.4	98.9	-43.2	78	67.2	22.3
4th	47.3	6.3	32.3	32.5	53.6	4.9	37.2	3	63.6	-77.6	165.3	-441
5th	22.2	18.2	-16.8	5.2	-2.6	-4.8	-7.4	0	1.3	7.2	37.9	45.4
6th	-7.4	8.2	22.8	2.1	10	-10.2	-2.6	-9.4	0.5	-6.4	-13.7	10.1
7th	-4.1	5.1	-14.4	34.5	0.4	0.4	-19.3	37.4	-23.6	23.5	-18.5	-16.8
8th	-2	-79.4	-288.3	-146.4	-10.8	-56.5	-298.7	-171.7	-258.3	-166.5	-123.9	-87.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1741.5		-477.2		-187.7		-6371.4		-543.6		-86.8	
RMS	1287		220		310.9		2352.6		199.8		29.7	
1/2 P-P	2559		354.1		664.9		3732.8		325.9		53	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1456.7	-793.8	-177.5	238.4	-220.9	-63.3	1038.2	3080.2	-201.2	-180	30.9	-22.7
2nd	202.3	59	-45.8	75.5	35.6	346.4	-244	-511.5	60	-51.8	-15.1	7.1
3rd	115.3	-20.6	14.2	7	67.1	-2.4	101.5	96.8	15.1	-11.5	-0.9	-1.7
4th	177.5	-635.6	4	13.2	46.4	-2.2	-8.6	-1.4	2.2	9.1	-0.7	1.9
5th	46.7	69.2	-3.7	-0.9	5.9	-10.9	-1	-19.9	-0.2	-3.9	-2.3	0.1
6th	-5.4	5.9	2.2	-2.9	-13.8	10	24.1	-0.6	-4.1	1.8	0.6	-0.1
7th	7.8	-24.8	-2	0.2	3.7	0.9	-16.5	21.1	0.5	2.3	-0.8	0.6
8th	115.4	66.4	-0.3	6.3	-19.4	-70.4	-276.1	-177.8	-1	7.6	0.7	-0.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$				
15/15										
MEAN	-471.2	-721.8	-672.3	-6899.7	-2663.6	-475.2				
RMS	543	470.8	301.1	2157.2	951.2	195.9				
1/2 P-P	970.5	1028	820.9	3660	2203.5	322.9				
HARMONIC										
1st	COSINE 299.3	SINE -515.1	COSINE 197.9	SINE -387.1	COSINE -22.6	SINE -111.7	COSINE -2701.6	SINE 1200.7	COSINE 628.8	SINE -200.9
2nd	COSINE -322.6	SINE 171.1	COSINE -288.3	SINE 117.1	COSINE -161.3	SINE 30.6	COSINE 309.1	SINE 514.6	COSINE -69.9	SINE 66.4
3rd	COSINE -88.9	SINE 280.2	COSINE -128.5	SINE 294	COSINE -101.2	SINE 210.2	COSINE 93.4	SINE -97	COSINE -145.9	SINE 37.3
4th	COSINE 14.7	SINE 34.1	COSINE 18.6	SINE 67.8	COSINE -28	SINE 72	COSINE -15.4	SINE 9.9	COSINE 327.3	SINE -534.5
5th	COSINE 33.5	SINE -49.7	COSINE 72	SINE -77	COSINE 79.6	SINE -46.6	COSINE 20	SINE 10.2	COSINE -41.2	SINE 83.3
6th	COSINE 27.2	SINE -20.2	COSINE 11	SINE -47.9	COSINE 19.1	SINE -47.3	COSINE -16.6	SINE -19.5	COSINE 16	SINE 13.7
7th	COSINE 15.7	SINE -16.2	COSINE -2.2	SINE 2.6	COSINE -32.9	SINE -1.5	COSINE -12.4	SINE 25.3	COSINE 12.6	SINE -18.7
8th	COSINE -28.4	SINE 18.8	COSINE -50.8	SINE 157	COSINE -59.2	SINE 190.5	COSINE -281.2	SINE -181.7	COSINE 287.1	SINE 158.3

RUN/POINT 15/14	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1261.7	4711.6	-4711.6	-1197	-5451.5	-2329.5	-978.6					
RMS	609.9	2214.3	2214.3	600.5	2341	1956	1378.6					
1/2 P-P	1001.1	3541.1	3541.1	957.6	3778	3135.5	2384					
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	612.1	467.3	-724.7	-2978.8	-532.4	511.5	3169.9	-670.6	2665.1	-499.2	1810.3	-558.2
2nd	-72.6	357.9	-110.8	-539.9	82	-388.6	62.8	586.5	49.9	461.7	111.2	189.1
3rd	-81.2	10.2	-102	-54.9	38.6	92.4	-61	105.8	-32.3	78.4	73.5	-8.6
4th	27.7	3.6	52.9	45.2	29.7	-1.3	22	7.6	8.9	-52.5	-52.4	-311.7
5th	2.9	-3.3	4.8	27.1	16.3	-23.5	-28.4	26.2	-14.2	14.6	68.1	-12.9
6th	-16.4	3.9	25	9	14.8	-8.4	-4.4	-11.2	0	-7	-1.6	5.4
7th	0	3.8	0.8	-1.6	-1.7	-3.4	7.4	2	2.8	-3.9	-10.1	-21.6
8th	0.4	-78.9	-199.3	-130.8	-12.9	-55.3	-206	-159.3	-171.3	-148.2	-80	-80.7
RUN/POINT 15/14	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1782.8	459.3	-459.3	-967.5	-6727.7	-522.6	-91.1					
RMS	1058.1	214.4	214.4	446.6	1887.7	191.7	32.3					
1/2 P-P	1943.9	347.5	347.5	861.7	3086.3	317.6	58.5					
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1278.5	-537.9	-161.5	240.3	-424	-164.6	514.2	2555.8	-202	-162.7	33.3	-27.6
2nd	145	44.1	-50.7	69.4	-141.7	385.4	-22.7	-473.7	54.9	-50	-12.5	5.3
3rd	111.7	-68.7	8.5	7.5	81.6	-81.1	100.4	101.8	11.2	-9.5	-0.7	-1.4
4th	-106	-434.9	1.6	20	21.5	-11.2	5.1	-15.4	-0.6	16.5	-2.4	2.8
5th	93.1	-28.3	-4.2	0.5	30.3	1.9	-25.6	-29.8	0.8	-4.9	-2.1	-0.1
6th	9.4	11.1	0.2	-0.4	-18	12.9	5.1	-2.9	-2.7	1	0	0.1
7th	-5.6	-7	-1.4	-0.8	2.7	2.1	15.2	-18.4	0.8	1.6	-0.1	0.7
8th	82.3	63.5	0.6	4.6	-15.8	-67.4	-185	-156.7	-0.3	6.6	1.1	-0.6

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
15/14						
MEAN	-1063.2	-337.6	124.7	399.2	329.7	-78.2
RMS	420.5	274.4	193.9	244.2	280.1	495.1
1/2 P-P	817.8	513.6	381.3	472.9	509.1	903.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-94.4	-390.5	54.4	-251.3	-289	300.1
2nd	125.2	-402.3	21.2	-39.5	75.4	-235.3
3rd	-52.7	-72.9	3.7	-12.2	26.1	31
4th	20.6	-11.2	3.5	-2.9	-6.2	11.4
5th	5.5	13.2	11.5	-1.4	-15.9	2.2
6th	17	-6.2	-1.6	3.6	11	-11.3
7th	-0.9	0.1	8.2	-12.2	-16.2	8.7
8th	3	-46.8	-21.6	10.2	7.4	6.2
			42.9	-32.6	-24.1	80.5
						65.6
						-8
						-11.8
						-88.7
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
15/14						
MEAN	-443.4	-648	-561.1	-7283.6	-2717.3	-459.1
RMS	511.2	431.2	282.3	1667.7	746.6	188.9
1/2 P-P	887.5	868	776.6	2824.4	1681.2	310.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	292.1	-445.4	-17.7	-79.2	-2196.3	423.6
2nd	-304.3	177.6	-103	23.6	60.4	-58
3rd	-38.3	321.3	-59.4	255.6	85.8	185.8
4th	5	17.1	-50.9	52.1	-122.9	100.5
5th	9.2	3.9	62.8	0.7	-84.6	-393.9
6th	38.9	-14.1	28.3	-28.1	-58.7	-7.8
7th	19.9	-4.6	-31.4	4.4	36	-10
8th	-21.6	17.2	-59.1	6.8	-11.2	3.8
			164.1	-20.9	18.5	2
			-194.3	-155.5	194.5	0
						138.5
						2.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2457.7		-5277.6		-2408.9		-6022.8		-2862.8		-1151	
RMS	535		1376.3		593.2		1552.9		1287.8		892.3	
1/2 P-P	957.6		2363.9		1091.8		2647.9		2180.3		1497.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	272.7	526	467.7	-1827.5	-652.3	166.1	2036.9	619.7	1684.8	553.8	1226.8	134.8
2nd	-86.4	436.5	12.3	-419.7	103.2	-460.7	-74	473.6	-60.7	357.9	20	135.3
3rd	63.6	97.5	-83.3	2.4	126.4	-45.9	-7.2	89.2	3.5	54.6	24.5	-40.7
4th	6.7	-17.3	33.8	39.2	11.1	-18.7	15.1	4.2	8.6	-19.4	-27	-118.7
5th	-24.4	-13.3	35.8	-1.3	26.3	-43	-1.2	49.5	2.7	24.8	46.7	-68.7
6th	0	8.6	7.9	1.1	-3.6	-11.3	11	-0.2	10.4	-1.5	-10.9	-5.9
7th	-2.1	-0.6	-11.5	-3.7	-6.7	1.2	-6.3	-2.3	-9.4	-6.5	-17.1	-13.3
8th	-9	-64.4	-100.5	-81	-10.3	-46.1	-105.5	-95.2	-86.9	-84.4	-39.4	-48
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1815.1		-426.1		-2143.8		-7272.1		-483.5		-94.3	
RMS	673.7		215		424		1203.5		191.2		28.5	
1/2 P-P	1303.8		335.3		844.2		2093.5		298.9		48.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	904.2	-45.8	-138.7	258.9	-88.9	-256.7	-771.9	1436.7	-222.1	-138.4	32	-22.7
2nd	56.7	14.2	-23.6	72.8	-155.5	466.9	110.5	-404.6	26	-60.9	-7.5	4.3
3rd	8.7	-92.1	2.6	5.9	-62.6	-168.4	99.3	40.1	2	-2.4	1.1	0.2
4th	-50.5	-172.1	7.4	10.6	-2.5	-25.6	3.6	-22.7	4.2	3.3	-1	1.6
5th	46.4	-123.6	-3	-1.6	53.9	10.5	-56.1	-0.5	3.5	-3.2	-0.9	-0.6
6th	-9.5	-12	2.1	0.1	1.1	17.6	-9	-8.4	-2.3	0.2	-0.2	0.3
7th	0.5	0.8	-2.6	-0.4	4.4	5.9	-13.2	-20.9	-0.4	2.1	-0.4	0.4
8th	45	40.2	1.2	3.8	-22.2	-56.8	-90.5	-92.9	1.4	5.8	0.3	-0.4

RUN/POINT 15/13	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2242.3	-1067.4	-176.8	263.9	221.6	-200.1						
RMS	372.7	220.9	141.4	219.7	261.2	480.2						
1/2 P-P	658.2	375.8	329.4	424.6	477.4	903.1						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	14.7	-51.5	22.4	-84.8	77.1	-151.6	129.7	-233.8	159.9	-275.5	337.6	-462.7
2nd	138.9	-475.8	95.9	-269.7	30.7	-54.4	-11.4	79.1	-35.6	124.9	-185.5	271.7
3rd	-136.3	59.3	-71.5	28.6	2.2	-2.1	56.8	-20.7	75.4	-22.7	115.9	44.7
4th	-7.7	-24.6	0	-11.5	4.7	1	6.3	11.3	1.6	19.7	-19.9	25.6
5th	0.5	33	5.9	13.4	17.6	-13.4	25.4	-39.4	22.1	-44.9	-24	5
6th	-3	-12.6	1.1	-4.8	5.5	5.8	7	14.5	7	18.3	-1.9	-11.6
7th	4	-3.3	5.2	-0.4	6.6	2.5	4.3	5.6	0.2	9.3	-2.7	-12.8
8th	-4.9	-43.4	-2.7	-7.4	-4.1	42.3	-6.5	79.3	-2.1	76.9	36.5	-91.1
RUN/POINT 15/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-450.4	-554.5	-379.5	-7865.8	-2756.4	-427						
RMS	462.9	369.5	234	1019	429.4	188.6						
1/2 P-P	814.5	681.3	602.2	1794.2	932.1	297.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	294.9	-442	183.8	-330.2	0.6	-87.6	-1136.6	-732.7	-520.2	85.8	129.4	-221.1
2nd	-178.3	260.7	-116.7	181.5	-35.4	42.6	-73.7	430.9	99.6	-61.6	-31.8	65.8
3rd	44.7	174	15.8	223	25.6	177.3	27.2	-88.2	25.7	87.6	-0.5	1.4
4th	-19	3	-51.8	8.9	-81.5	41.6	21.1	-9.6	-32.2	-69.5	2.2	4.4
5th	-22	67.7	9.1	62.2	7	33.1	3.5	-47.4	-15.5	100.9	4.9	2.8
6th	15	-34.7	13.6	-36.1	36.8	-31.1	6.2	20.7	2.5	-27	2.1	-1
7th	24.6	-6.9	7.2	6.7	-13.4	22.6	-19.6	-19.3	18.2	17.4	2.4	-0.7
8th	-3.9	22.4	-7.4	129.5	-33.4	150	-92.3	-90.2	94.7	74.3	0.9	2.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
MEAN	-3743.9	-5769.7	-3708.8	-6500.5	-3324.5	-1299.4				
RMS	864.4	1385.2	960.5	1573.3	1284.7	862.9				
1/2 P-P	1509	2316.3	1676.4	2577.3	2057.6	1528.7				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
1st	61.2	1073.3	-1603.6	-40	1820.8	1186.1	1456.2	1027	1081.9	475.5
2nd	-141.5	492.7	-338.8	-503.7	-191.1	374.6	-151.4	272.5	-41.6	99.8
3rd	135.3	208.2	16.4	-110.2	5.9	89.8	16	53	18.6	-39
4th	-13.2	-34.3	24.8	-42.2	23.5	7.6	-4.7	-17.3	-124.6	-116.8
5th	-51	-39.1	11.9	-73.2	-20.5	94.8	-4.5	46.2	99.5	-142.5
6th	8.5	7.9	-4.2	-10.6	14.1	1	11.8	-1	-10.4	-15.5
7th	0	-4.4	-3.6	3.6	21.7	-9.7	12.4	-10	-14.6	-14.2
8th	-28.5	-39.1	-32.4	-21.8	-59.8	-38.8	-49	-34.9	-21.2	-20.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
MEAN	-1840.6	-388.3	-3408.9	-7694.1	-435.3	-96.4				
RMS	659.6	215.8	715.7	1361.2	191.9	27.2				
1/2 P-P	1313	325.9	1352.7	2193.4	301	42.8				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
1st	802.3	219.5	-109.6	273.3	113.9	-776.1	-1354.2	1293	-239.6	33.6
2nd	0.1	2.7	-3.3	74.7	-210.6	507.8	210.7	-325.2	3.7	-108.1
3rd	-1.2	-84.9	-7.1	13.2	-138.2	-263	98.4	24.3	2.7	-64.3
4th	-198	-159.8	9.6	18.5	-25.3	-44.9	16.6	-7.1	13.4	3.1
5th	117.4	-255.6	-2	-1.6	76.7	37.2	-79.4	-24.9	3.7	8.9
6th	-13.2	-18.4	1.7	0	15.8	18.1	-26.1	-13.1	-1.2	-1.5
7th	-16	8.2	-2.4	-1	6.9	7.5	13	-13.1	-0.5	0.3
8th	30	20.1	2.6	2.4	-29	-25.2	-49	-35	3	2.2
										0.4
										-0.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3515.1	-1858.5	-506.1	117.8	106.1	-309.8						
RMS	599.7	357.5	179.4	223.1	265.3	482.9						
1/2 P-P	1181.5	694.8	327.7	521	568.9	892.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	559	357.2	46.2	210.9	-84.8	178.6	-191.1	192.1	-234.2	378.9	-401.7	
2nd	190.6	128.8	-292.9	49.1	-63.6	0.6	78.2	-20.9	128.1	-136.1	297.2	
3rd	-231.2	-125.7	65.9	-2.4	6.6	85.9	-31.2	118.5	-42.6	223.2	1.8	
4th	-26.5	-9.4	-21.9	5.5	2.8	13.5	23.4	12.7	35.1	-6.8	33.5	
5th	-28.3	-5.1	17.3	30.7	-20.2	60.1	-56	62.4	-67	-25.9	1.3	
6th	-9.8	-1.2	-4.8	8.7	4.8	15.2	13.2	16.9	15.7	-9.8	-12.2	
7th	6.2	5.7	-0.9	4.3	0.5	0.3	2.3	-4.1	5.6	2.9	-7.8	
8th	-18.5	-3.4	-5.2	14.4	27.4	26.5	52.7	27.7	50.5	-8.9	-70.9	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-420.1	-433.3	-170.3	-8330.3	-2797.8	-385.9						
RMS	450.6	358.4	224.1	1276.4	425.8	187.9						
1/2 P-P	882	732.6	616.6	2073	1004.8	294.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	294.8	174.8	-297.5	10.9	-77.5	-1054.6	-1389.8	-464.1	-110.5	100.1	-235.6	
2nd	-48.7	14.5	216.4	40.7	47.4	-187.5	358.6	27.3	-51.4	-7.5	68.4	
3rd	134.6	118	156.6	111.4	140.1	12.4	-84.9	52	92.7	6.6	-0.7	
4th	-29.8	-83.5	-50.7	-100.7	-2.3	34.5	-1.1	-185.5	-96.1	8.8	6.8	
5th	-107.1	-98.9	119.2	-84.7	57.3	21.1	-77.7	-81.7	170.9	1.5	4	
6th	0.2	10.6	-22.1	38.1	-15.7	11.7	22.4	-16.4	-27	1.2	-0.7	
7th	23.2	4.6	-0.2	-10.5	24.5	15.3	-5.4	-18.4	7.3	2.4	-0.7	
8th	10	39.9	90.9	20.1	99.2	-47.3	-26.9	45.2	18.7	2.1	1.5	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-508.8		-4578.9		-447.9		-4860.6		-1786.6		-550.3	
RMS	400.8		2469.9		388		2572.1		2171.7		1535.5	
1/2 P-P	691.2		4025.1		672.3		4235.7		3519.9		2666.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	338.7	289.6	-3288.1	-942.8	-308.2	246.4	3427.3	-971.1	2911.2	-772.2	1954.8	-752.2
2nd	9.5	312.6	-538.9	-202.6	-23.6	-347.7	188.1	576.8	155.9	458.7	169.4	185.5
3rd	-84.4	-43.7	-85.3	-109.4	-17.2	95.5	-91.7	114	-52.2	90.7	90.8	26
4th	45.9	17	34.2	20.5	50	9.3	10.2	14.3	31	-62.9	101.5	-404
5th	37.1	-10.9	55	-29.4	38.4	8.5	-81.4	1.8	-35.2	7.9	149.7	79.1
6th	-15.9	12.6	-2.4	23.2	19.4	-13.6	1.6	4.7	4.9	2.6	2	1.6
7th	-3.9	0.6	36.5	-8.3	-2.6	3.1	-0.7	37.4	-8.1	23	-17.4	-17.3
8th	6.4	-72.8	-158.2	-241.9	-6	-48.7	-244.9	-183.7	-208.7	-174	-98.1	-97.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1567.1		-470.6		-242.4		-6255.8		-536.2		-87.4	
RMS	1208		216.9		289.3		2101.7		198		27.7	
1/2 P-P	2406.5		359.4		604.4		3428.4		331.5		50.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1377.6	-708.6	-174.6	-53.6	-139.4	20.7	724.8	2811.9	-197.4	-177.8	28.6	-20.7
2nd	180.7	38	-19.8	9.4	-61.5	350.1	-135.1	-465.9	67.5	-48.8	-14.8	5.8
3rd	142.3	-576.2	-576.2	5	81.1	-20.4	109.3	115.8	17.4	-9	-0.7	-1.6
4th	109.2	101.7	-3	-3	40.3	2.7	-3.6	1.6	1.1	17.1	-1.4	3
5th	238.2	-9.3	2.3	-0.3	1.2	28.2	10.2	-85.1	0.4	-3	-2.3	0
6th	7.9	-23.4	-0.3	-1.1	-22.9	10.1	27.3	-2.4	-4.9	0.9	0.3	0.1
7th	-5.3	66.8	-1.1	-1.1	6.3	5.3	7.2	30.3	-0.5	1.7	-1.1	0.6
8th	98.2				-12.9	-65	-229.9	-178	-1.5	6.4	0.9	-0.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.570	
MEAN	-326	119.8	321.1	490	402.3	-9.8						
RMS	338.1	207.6	149.1	235.9	280.1	511.1						
1/2 P-P	679	407.5	285.1	525.2	572.5	953.7						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	
	1st	-268.8	-117	-158.7	-126.3	8.9	-189.3	101.4	-277.6	139.7	-326.7	274.9
	2nd	32.4	-350.3	30.8	-195.2	1.5	-28.8	-21.2	75.6	-44	109.9	-217.6
	3rd	1.1	-83.3	6	-49.5	3.2	-16.4	4.3	11	1.9	30	-49.4
	4th	42.2	4.5	25.7	1.8	4.7	-6.4	-13.4	-15	-26.9	-12.9	-46
	5th	-22.6	-16.2	-4.9	-2.8	16.3	13.4	35.6	27.2	39.9	34.6	-14.7
	6th	15.5	-8	7.6	-2.9	-3.5	1.9	-14.3	4.4	-17	6.9	9.9
	7th	-3.1	-5	0	-2	4.1	1	6.9	2.5	6.2	7	-3.7
	8th	3.7	-50.6	-8.3	-11.5	-27.4	43.8	-40.5	85.3	-29.4	85.1	72.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
14/ 8										
MEAN	-606.9		-3945.9		-479.1		-4674.2		-1676	-659.9
RMS	438.3		2494.2		417.8		2594.7		2194.3	1580.9
1/2 P-P	820.5		4027.5		836.3		4208		3625.4	2929.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	409.6	262.1	-1234.4	-3229.8	-269	330	3348.8	-1298.1	2856.1	-1045.6
2nd	13	343.8	-237	-554.4	-23.9	-378.6	218.4	611.4	181.9	483.3
3rd	-87.1	-82.8	-86.7	-56.5	-53.5	97.3	-77.4	97.4	-43.1	78.6
4th	27.2	9.9	15.8	42.2	31.2	7.2	29.4	15.2	50.5	-82.5
5th	12.9	17.4	-14.6	34.9	8.8	-15	-52	2.9	-21.9	4.4
6th	-19	11.7	30.1	18.4	16	-13.6	4.2	-0.7	2.5	1.1
7th	-5.3	-1.8	10	-13.3	-7.8	4.9	10.2	-12.9	5.4	-14.3
8th	11.5	-76.5	-222.8	-141.2	5.8	-55.7	-235	-168.5	-199.3	-159.8
										-91.8
										-38.9
										0.2
										3.5
										-11.6
										-83.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
14/ 8										
MEAN	-1629.2		-468		-335		-5781		-535.2	-92.7
RMS	1275.3		222.9		326.2		2154.3		204.5	29.9
1/2 P-P	2652.3		361.6		704.1		3547.6		340.4	54
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
1st	1358.3	-847.5	-178.7	240.6	-214.3	33.3	1035.1	2791.8	-204.2	-183.3
2nd	212.7	23.5	-52	79	-49.1	376.9	-164.9	-504.6	64.4	-56.7
3rd	137.3	-11.3	13.2	6.1	89	13.6	83.8	100.1	18.1	-12.9
4th	129.9	-715.8	3	15.9	26.9	0.8	13.9	6.4	0.1	-1.1
5th	155.3	68.4	-4.1	-1.9	11.9	-4.8	3	-42	1.4	-1
6th	-1.5	3	1.2	-1.9	-26.7	11.2	9.6	6.2	-3.5	-2.1
7th	-14.2	-2.1	-0.5	0.6	5.1	5.5	15.6	-11.4	-0.4	0.3
8th	94.5	68.8	-2.4	6.2	3.6	-72.3	-205.1	-169.3	-4.1	7.5
										1.3
										-1.6

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/ 8						
MEAN	-439.8	51.4	290.7	472	390.5	-19.3
RMS	375.9	236.2	167.6	242.8	286.6	535.2
1/2 P-P	691.5	443.1	309.3	526.6	560.8	974.3
HARMONIC						
1st	COSINE -273.4 SINE -217.5	COSINE -159.1 SINE -187.6	COSINE 10.4 SINE -217.7	COSINE 103.9 SINE -291.1	COSINE 143.7 SINE -339	COSINE 239 SINE -605.4
2nd	COSINE 30.1 SINE -376.8	COSINE 29.2 SINE -210	COSINE -0.5 SINE -31.4	COSINE -23.3 SINE 79.7	COSINE -44.9 SINE 116.4	COSINE -181.2 SINE 276.5
3rd	COSINE 29.9 SINE -78.8	COSINE 21.5 SINE -46.1	COSINE 4.6 SINE -15.6	COSINE -2.3 SINE 8.6	COSINE -7.9 SINE 25.5	COSINE -27.8 SINE 146
4th	COSINE 30.6 SINE 2.7	COSINE 20.7 SINE 1.1	COSINE 6.1 SINE -3.9	COSINE -5.5 SINE -12.4	COSINE -15.8 SINE -8.8	COSINE -34.9 SINE 25
5th	COSINE 8.9 SINE 1.7	COSINE 7.1 SINE 4.4	COSINE 3.8 SINE 5.5	COSINE 3.7 SINE 3.9	COSINE 3 SINE 6.4	COSINE -14.1 SINE 9.4
6th	COSINE 23.6 SINE -9	COSINE 11.7 SINE -1.1	COSINE -4.9 SINE 6	COSINE -20 SINE 7.8	COSINE -24.4 SINE 11.8	COSINE 9.1 SINE -9.6
7th	COSINE 4.9 SINE -8.9	COSINE 4.4 SINE -3.2	COSINE 0.9 SINE 3	COSINE -1.1 SINE 6.6	COSINE -0.5 SINE 9.9	COSINE -2.4 SINE -10.6
8th	COSINE 10.4 SINE -44.7	COSINE -8 SINE -10.7	COSINE -36 SINE 36.6	COSINE -54.4 SINE 70.1	COSINE -42.4 SINE 71.3	COSINE 17.7 SINE -119.6
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/ 8						
MEAN	-453.6	-697.8	-652.2	-6453.6	-2702.3	-470.5
RMS	563.1	477.2	294.8	2006.4	969.1	198.5
1/2 P-P	987.5	1041.8	847.6	3360.4	2352.8	331.5
HARMONIC						
1st	COSINE 306.6 SINE -528.8	COSINE 201.3 SINE -394.7	COSINE -19.7 SINE -111.8	COSINE -2457.6 SINE 1259.7	COSINE -823.7 SINE 673.3	COSINE 167.5 SINE -202.9
2nd	COSINE -347.3 SINE 198.6	COSINE -300.8 SINE 140.3	COSINE -156.3 SINE 39.9	COSINE 209.1 SINE 486	COSINE 241.8 SINE -91.5	COSINE -65.9 SINE 68
3rd	COSINE -80.3 SINE 277.9	COSINE -115 SINE 287.3	COSINE -88.6 SINE 202.1	COSINE 89.4 SINE -90.7	COSINE -154.4 SINE 34.7	COSINE -9.7 SINE -6
4th	COSINE -4.4 SINE 43.9	COSINE -0.1 SINE 85.1	COSINE -40.8 SINE 91.8	COSINE 7.8 SINE 25.7	COSINE 166.6 SINE -680.2	COSINE 0.7 SINE 17.7
5th	COSINE 30.6 SINE -38.3	COSINE 73.8 SINE -63.9	COSINE 86.2 SINE -40.7	COSINE 42.8 SINE 17.7	COSINE -108.5 SINE -98.8	COSINE 5.1 SINE 0.5
6th	COSINE 50.9 SINE -14	COSINE 31.5 SINE -40.5	COSINE 30.1 SINE -42.3	COSINE -28.8 SINE -13.4	COSINE 38.4 SINE 11.3	COSINE 3.9 SINE -3.2
7th	COSINE 17.5 SINE -13.7	COSINE -20 SINE 14.7	COSINE -58.5 SINE 11.9	COSINE 8.3 SINE -10.4	COSINE -7.2 SINE 11.4	COSINE 0.7 SINE -1.9
8th	COSINE -32.9 SINE 9.6	COSINE -71.7 SINE 116.7	COSINE -88.5 SINE 147.4	COSINE -214.2 SINE -170.1	COSINE 223.9 SINE 150.4	COSINE -2.3 SINE 3.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-933.2	-5970.4	-891.5	-6329.5	-3091	-1362.9						
RMS	430.9	1933.6	449.9	2187	1846.9	1267.8						
1/2 P-P	782.3	3292.4	835.7	3638.9	3048.9	2229.2						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	234.4	314.3	272.2	-2651.3	-375.8	189	2998.5	374.1	2535.5	355.5	1752.2	-20.6
2nd	-237	341.3	146.9	-449.2	225.5	-370.2	-133.3	503.5	-91.4	382.8	73.1	125
3rd	-39.4	24	-66.8	-74.4	35.9	44.9	-65.1	101.9	-42.1	71.2	38.3	-11.2
4th	33.6	36.6	-7.8	13.4	31.4	18.7	-19.8	-27.6	-5.3	-39.5	29.6	-122.3
5th	23.6	-21	-13.4	16.2	17.9	-11.5	-20.6	-19.3	-3.1	-7.2	72.4	51.6
6th	-24.3	2.5	23.9	17.1	13.6	-8.6	4.5	-2.9	6.9	-0.7	8.6	17.9
7th	-1.4	5.7	-6.5	31.2	-8.2	0.1	12.7	41.7	-0.7	29.7	-10.8	-14
8th	57.6	-70.8	31.6	-143.4	39.1	-48.2	51.5	-149.2	50.1	-126.5	24.6	-65.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1857.7	-420.3	-779.2	-7707	-489.4	-44.2						
RMS	944.8	197.8	394.2	1958.2	176.7	23.5						
1/2 P-P	1693.6	315.2	779.5	3413	292.1	43.2						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1267.7	-191.8	-137.4	231	-124.3	-172.9	-449.5	2663.5	-198.1	-135	26.7	-14.8
2nd	150.8	-24.6	-52.2	38.2	-286.5	370.3	190.5	-415.1	55.2	-26.2	-7.8	2.9
3rd	69.3	-37.6	-21	-10.9	24.6	-74.7	81.6	94.7	-3.7	9.5	5.3	2
4th	52	-156.8	-16.5	21	30.6	21.2	-11	-34.1	-17.6	11.8	-5	1.9
5th	97.9	98.6	-6.1	4.4	3.2	5.4	15.7	-13.4	-9.7	-6.4	-0.3	-2.8
6th	22.2	7.3	12.5	-5.9	-24	-1	22.6	-0.6	-11.6	4.5	1.4	0.8
7th	-12.2	-37.7	-5.7	-3.6	0.3	-5.4	-16.8	17.9	-2.6	1.6	-0.9	0.8
8th	-20.9	57.1	-3.2	7.1	47.1	-80.8	47.3	-131.4	-7.8	7.7	-2	-0.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-892.9	-243.5	148.6	290.3	281.7	-168.1						
RMS	367	221.9	157.1	250	279.9	504.4						
1/2 P-P	802.2	508.4	406.8	538.8	579.7	1036.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-122.4	-58.4	-66.3	-90.8	44.7	-168.7	118.6	-276.5	139.4	-313.1	291.6	-497.7
2nd	283.4	-361.2	176.3	-202.8	46.9	-41.3	-39.9	70.5	-74.2	106.3	-282.6	230.4
3rd	-53.9	-29	-23.7	-23.5	9	-15.4	29.8	-1.6	29.7	11.9	6.8	137.6
4th	34.2	18.1	21.9	7.9	5.7	-7.6	-11.9	-15.4	-25.7	-13.1	-32.1	12
5th	6.1	-2.9	8.8	-2.2	15	-3	19.2	1.4	14	7.9	-15.5	11.2
6th	22	4.2	10.6	-0.1	-0.9	-6.9	-11.3	-8.6	-18.7	-5.3	14.5	12.2
7th	0.5	1.8	7	0.3	16.2	-1.3	19.9	1.4	16.9	3.9	-7.8	-11.3
8th	47.1	-49.4	6.8	-13.7	-54.8	31.4	-98.6	70.3	-91.5	76.9	146.6	-59.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	-505.2	-683	-581.9	-8359.4	-2668.2	-428.1						
RMS	498	425.2	317.2	1649.5	653.5	176						
1/2 P-P	920.3	952.9	805.3	2908.8	1292.7	284.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	271.3	-434	176.8	-316.2	-8.9	-83.9	-2238.9	-288.1	-784.4	220.2	126.5	-198.5
2nd	-304.7	207.3	-230.9	139.6	-80.8	40.2	-150.2	387.9	199.8	-112.2	-58.1	33.5
3rd	-52.4	262.7	-92	276.1	-72.8	205.6	89.2	-89.5	-35.3	48.6	22.1	12.9
4th	41.8	56	39.3	80.7	-6.6	87.9	5.5	-14.6	-71.7	-224.1	-18.9	17.1
5th	6.8	-40.2	26.3	-57.3	34.5	-29.5	11.3	21.2	-44	-99.3	8.5	-10.4
6th	39.7	-16.6	9.7	-41.6	12.9	-44.4	-25.6	-23.8	21.5	26	12.8	-3.7
7th	16.2	-7.6	-3.7	4.9	-25.6	0.4	-32.6	6.3	12	4.7	5.9	2.2
8th	-40.7	13	-148.1	134.1	-169	159.7	38.3	-137.9	-29.3	135.6	-4.5	3.3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	2649.9	-4897.2	2752.5	-5451.5	-2136.8	-1161.3						
RMS	556.4	6662.6	494.7	6506	5532.6	3760.8						
1/2 P-P	1045.7	10018.9	886.6	9717.5	8391.2	6598.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$		Blade 1	
1st	420.4	346.4	-8018.9	222.4	7410.5	-5266.7	6374	-4369.2	4024.2	-3041		
2nd	252.2	268.8	-766	-960.3	828.9	987.5	701.2	816.6	709.5	365.5		
3rd	-250.6	-277.9	-101.8	-322	-310.4	166.7	-198.7	154	277.5	185.2		
4th	87.8	58.5	115.5	67.6	65.9	-136.5	59.1	-348.7	-19.3	-1362.6		
5th	36.6	101.1	-85.6	-2.1	-72.9	46.6	-35.8	-2.9	-44.4	196.3		
6th	-47.5	-6.5	-27.3	43.1	29.4	-36.5	22.3	-6.8	-15.9	89.1		
7th	-43.2	-21.4	-7.7	7.3	-18.6	39.6	7.2	8.7	-23.2	-30.1		
8th	79.2	-83.2	67.3	-342.7	79.2	-71	69.6	-380.8	53.4	-196.1		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1939.1	-488.2	2805	-6764.2	-591.8	-53						
RMS	2949.5	251.4	448	6522.1	229.3	23						
1/2 P-P	5564.1	401.3	835	9804.9	417.5	50.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2702.1	-2354.2	-279	190.3	-307.2	-215.7	4773	7780.9	-148.7	15.2	15	
2nd	693.3	94.8	18.8	83.7	198.4	272.6	-703.6	-981.1	31.5	-0.2	11.7	
3rd	509.4	157.4	-47.7	8	254.2	190.6	82.8	329	2.7	9.2	-9.1	
4th	-159	-1877.8	-24.5	-21.1	94.8	43.7	126	-46.3	-13.3	-6.7	-11.6	
5th	-42.7	312.2	-4.6	11.5	-15.1	-89.4	80.9	11.6	-28.4	-5.5	-0.3	
6th	-38	94.2	-1.9	14.8	-57.7	-5	-17	47.7	5.7	-1.4	3.4	
7th	-3.3	-24.5	3.2	-9.9	44.8	27.6	53.2	3.7	-10.7	-0.1	2.3	
8th	-24.4	126.5	-9.8	7.3	90.7	-79	104.6	-333.4	-12.5	3.4	-1.6	

MEAN	2728.1	1998.7	1068.1	777.8	606.3	136.4
RMS	470.8	284	208.3	324.2	377.9	637.8
1/2 P-P	934.9	560	498.8	742.7	727.3	1276.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-325.3	-183.4	-205.5	-147.6	19.6	-215	107.6	-314.3	152.9	-379.8	262	-636.2
2nd	-337.4	-221	-198	-125	-88	-9.1	-69.5	64.4	-81.1	85.9	-287	172.5
3rd	194.2	-247	114.4	-140.2	8.1	-36.1	-75.2	46.9	-113.1	81.2	-272.6	309.9
4th	69	61	38.8	23.8	2.5	-34.5	-37.4	-68.7	-67.4	-70.7	-53.4	7.7
5th	119	-23.2	47.4	-8	-44.5	1.3	-127.1	11.9	-155.9	22.6	-7.9	35.5
6th	54.8	9.4	21.7	4.9	-21.1	-3.3	-60.1	-14.9	-69.6	-17.3	46	23.5
7th	15	-42.3	1.1	-8.1	-23.5	37.7	-43.7	72.2	-43.2	74.7	85.1	-69.6
8th	67.6	-59.6	3.5	-23.7	-93.2	22.7	-161.3	63.7	-145.4	77.4	206	-44.8

RRUN/POINT	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
17/25	Blade 1, $\tau/R=0.725$	Blade 1, $\tau/R=0.800$	Blade 1, $\tau/R=0.144$	Blade 1, $\tau/R=0.400$

MEAN	-540.1	-952.8	-1071.8	-7228.9	-2636.4	-493.2
RMS	822.8	861.2	705.8	6258.5	2337.6	230.7
1/2 P-P	1668.9	1982.3	2046.9	9205.6	4835.3	403.2

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	325.3	-585	229.1	-488.6	-51	-209.1	-686.1	5429.6	-1722.1	1664.5	267.8	-154.1
2nd	-569	96.1	-586.8	56.9	-409.8	18.9	909	799.4	689.4	-76	23.2	53.7
3rd	-246.5	519.2	-305.2	492.1	-281.6	340.5	346.2	-143.7	-555.6	-163.2	36.7	-29.9
4th	156.1	199	233.9	288.3	144.6	256.7	-62.7	-26.1	387.7	-1991.3	-39.8	-43.8
5th	349.6	-106.9	437.9	-147.8	377.7	-72.1	8.9	37.5	109.1	-224.8	4.7	-6.4
6th	81.1	16.8	10.1	-53.6	-12.1	-96.5	-12.4	-39.9	-20.2	30.7	2.1	17.4
7th	-15.4	-4.6	-120.2	129.7	-189.3	110.8	27.9	-6.5	-76.9	-16.1	-1.3	7.4
8th	-84.8	-16.1	-245.7	170.3	-270	259	117.5	-345.4	-92.5	348.1	-9.2	5.6

RUN/POINT 17/24	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	1275.5	-5736.9	1358.9	-6289	-2884.6	-1367.9							
RMS	341.7	3828.6	330.4	3969.9	3394.8	2406.9							
1/2 P-P	772.5	5778.9	660.7	6046.8	5247.1	4260.7							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	216.7	-80.6	-2168.8	-4905.4	160.5	121.8	4969.6	-2501	4296.9	-2038.1	2838.2	-1500.9
	2nd	-99.7	271.2	-269	-533.7	98	-288.8	261.3	528.5	235.7	436.4	330	209.7
	3rd	-151.3	-200.5	-99.1	-227.6	-165.9	184.3	-205.6	124.2	-158.9	104.5	53.3	113.5
	4th	48.5	62.9	22.9	98.6	51.7	61.7	20.3	-46.4	54.6	-201.2	185.1	-885.3
	5th	91.6	-18.4	-37.4	33.9	17.5	60.7	-85.6	-24.9	-22.5	1	190.4	138.7
	6th	-41.2	-5.6	34.5	41	30.6	1.5	-45.6	-49.1	-11.1	-9.2	79.8	119
	7th	-18.8	1.2	-11.3	-17.3	-2.5	9.3	-5.9	-18.2	-17.1	-3.3	-49.7	56
8th	78.8	-71.8	99.2	-230.9	60.3	-53	137.1	-265.2	110.8	-223.1	-10	-119.5	
RUN/POINT 17/24	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-2042.2	-477.1	1468.6	-7671.6	-564.8	-60.9							
RMS	1930	226.7	361.8	3696.3	208.1	16.4							
1/2 P-P	3736.1	378.7	721.8	5605	366.5	34.8							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	1960.7	-1334	-206.3	218.6	-107.6	269.8	2166.5	4708.9	-179.6	-204.9	13.6	-8.9
	2nd	451.3	-37.5	-69.6	56	-167.3	279.7	-183.6	-495.5	85.6	-34.6	-11.5	5.8
	3rd	282.8	121.3	-40	-28.8	153.6	140.9	80.7	239.7	-22	34.1	6.7	3.9
	4th	195.8	-1125.8	-13.6	19.3	57.8	53.9	29.7	-22.5	-15	12.6	-3.5	0.1
	5th	184.1	264.2	-23.4	12.1	-53	18.3	40.1	-24	-15.3	-28.2	2.9	-1.2
	6th	45.3	89.1	8.9	-2.3	-45.3	-5.7	36.5	47.8	-8.9	3.7	1.4	0.5
	7th	-14.5	-8.6	5.4	-5.4	23.7	0	9.4	-17.6	-4.3	-6.3	-2.2	1.7
8th	-43.4	81.2	-9.7	9.7	80.9	-60.4	110	-216.1	-14.2	7.7	-0.2	-0.6	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$					
17/24											
MEAN	-531.2	-856.9	-910.9	-8199.8	-2783.6	-476.4					
RMS	706.7	669.8	502.7	3487.4	1481.9	210.1					
1/2 P-P	1353.5	1442.4	1349.2	5242.3	3151.4	369.3					
HARMONIC											
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE					
2nd	328.9	-553.3	236.1	-416.7	-25.4	-145.6	2548.1	-1243.5	1021.5	196.8	-190.4
3rd	-525.7	122.4	-478.8	89	-258.3	38.7	280.6	402	516.1	-155.5	-75.5
4th	-281.2	345.2	-345.7	313.4	-280.6	219.3	242.8	-61.8	-364.5	-106.6	42.9
5th	61.4	111.2	88.3	156.2	19.1	149.7	-1.4	-49.7	281.9	-1047.8	-11.3
6th	70.6	-200.2	111.5	-245.4	111.1	-136.6	35.1	47.4	-76.1	-268.5	33.9
7th	52.7	7.1	10.9	-36	-8.9	-55	-26.7	-33.5	3.4	51	10.3
8th	-4.1	-5.7	-66	78.2	-103.8	65.1	15.4	-23.6	-29.6	17.1	-5.8
	-66.3	-2.4	-235.1	128.7	-245.6	179.5	128.1	-212	-106.2	202.1	-9.8

RUN/POINT 17/23	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	69.6	-6180.3	138.5	-6695.8	-3302.7	-1491.2						
RMS	325.5	2584.6	301	2693.3	2299.8	1655						
1/2 P-P	707	3946.2	652.2	4112.1	3527.3	2927.8						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	268.8	63.6	-792.1	-3520	-37.4	165.5	3670.8	-811.3	3148.4	-645	2152.8	-686.4
2nd	-151.8	292	-84.1	-502.1	154.9	-326.8	50.8	531.4	67.9	415.7	238.8	137.9
3rd	-54	-87.5	-78.5	-110.6	-68.4	78.5	-107.2	71.2	-67.8	55.7	77.9	31.4
4th	37.7	43.8	24.7	46.5	42.7	37.6	10.1	-24	32.9	-87.3	117.1	-387.5
5th	21.3	-27.1	-13.1	26.9	33	-8.4	-43.4	-8.2	-14.9	3.5	95.7	67.3
6th	-29.6	-4.8	26.4	23.2	29.2	0.4	-10.1	-24.6	-1.9	-12.7	3.1	21.7
7th	-3.2	8.2	-29.8	48.5	1.1	2.2	0.4	46.8	-7.5	29.3	-12.9	-32.2
8th	72.6	-59.5	90.3	-153	49.7	-29.7	116.9	-167.5	107.9	-135.9	60.4	-87.2
RUN/POINT 17/23	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2010	-455.9	287.6	-8054.7	-533	-68.7						
RMS	1303.9	212.8	318.8	2393.4	191.5	22						
1/2 P-P	2604.6	343.9	654.1	3650.8	319.3	40.6						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1548.1	-680	-170.4	230.4	-105.4	153.4	606.6	3286.2	-192.7	-168.9	20.7	-17.8
2nd	302.3	-23.3	-60.2	41.4	-213.2	325.3	5.1	-454.5	68.4	-24.5	-10.8	3.3
3rd	140.6	5.1	-34.2	-13.7	46.7	28.4	72.9	130.5	-8.5	23.7	5.1	2.2
4th	130	-557.9	-24.6	20.5	35.5	30.3	-7	-32.3	-25.2	10.1	-6.1	1.3
5th	133.9	107.4	-9.8	9.9	15.3	4.5	22.4	-15.3	-13.5	-12.7	0.6	-3.1
6th	26.3	35.8	11.9	-5.4	-31.2	-0.7	24.3	15.2	-13.6	5.5	1.8	0.2
7th	-8.2	-50.1	-1.5	-3.3	4.3	-1.3	-4.9	17.2	-3.2	0.6	-1.2	2.1
8th	-45	60.2	-7.8	7.1	68.7	-59.7	116.9	-131.2	-12.3	7.9	-0.8	-0.8

RUN/POINT 17/23	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	209.4	-473	433.4	-62.7	425.3	-183	485.9	-289.8	373.3	-346.7	-109	-578.5
RMS	430.8	174.4	261	-314.2	156.6	100.3	254.6	72.3	304.3	145.4	564.7	209
1/2 P-P	790.2	49	500.2	-50	344.3	14.1	512.6	-94.9		-99.6	1070.3	128.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	35.3	22.8	22.5	11.1	5.2	-7.8	-15.7	-19.9	-22	9.2	-36.5	3.7
	17.7	5.5	11.3	2.7	7.5	-4.4	1.8	-5.5	-34.2	-18	-12.3	12.1
	28.1	8.9	11.8	3.1	-6.4	-6.8	-22.8	-13.7	-9.1	-1.7	24.9	16.6
	-4.7	-1.2	-0.3	3	5.8	9.4	7.9	15.4	5.5	17.1	13.6	-20.1
	50.7	-36	3	-10.1	-68.2	19.7	-120.1	45.7	-112.7	52.6	162	-20.5
RUN/POINT 17/23	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-546	-520.3	-784.8	-395.3	-729.8	-120.2	-8634.6	826.6	-2759.1	542.4	-457.6	-195.4
RMS	589.5	174.9	516.2	117.6	357.6	42.2	2133	421.9	928	-119.2	190.6	33.9
1/2 P-P	1072.9	261.3	1225.6	257.4	975.1	182.1	3310.9	-68.3	2007.6	-22.9	325.6	16.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	319.3	-520.3	222.1	-395.3	-6.1	-120.2	-2854.1	826.6	-979.2	542.4	159.9	-195.4
	-408.1	174.9	-338.6	117.6	-161.1	42.2	71.4	421.9	-979.2	-119.2	-66.9	33.9
	-163.3	261.3	-204.5	257.4	-161.7	182.1	128.6	-68.3	338.2	-119.2	-66.9	33.9
	50.7	81.2	62.2	118.1	5.5	113.3	-0.7	-36.6	-144.7	-22.9	30.2	16.6
	50.1	-17.8	84.8	-25.5	84	9	22.5	-36.6	169.6	-447.2	-26.3	20.8
	46.6	2.1	7.8	-37.2	3.7	-46.2	-8.7	3.5	-47.3	-88.1	16.9	-11.1
	3.7	-3.2	-33.3	22.6	-57.2	7.3	-29.3	-31.9	11.1	44.8	14.8	-3.8
	-56.7	-1.8	-190.6	98.3	-211.4	130.7	113.9	6.6	13.3	1.9	1	2.7
								-135.6	-97.2	133.5	-8.4	5.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
17/22												
MEAN	-541.3		-6320.1		-489		-6819.2		-3428.6		-1491.3	
RMS	515		2458.9		506.8		2615.4		2210.8		1545.2	
1/2 P-P	1008.9		4016.4		991		4131.8		3422.4		2800.1	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	417.1	402.8	-204.8	-3408.6	-434.6	339	3629.3	-206.6	3077.2	-115.7	2106.7	-325
3rd	-177.4	353	14.8	-547.3	189.6	-373.3	-65.3	559.6	-35.2	434.7	138	152.2
4th	-41.3	-10.7	-85.9	-92.6	14.2	68.4	-88.9	74.4	-57	56.5	50.6	3.1
5th	28.4	35.9	2.2	32.6	34.3	30	-7.2	-31.7	-4.8	-56.3	-18	-188.8
6th	33.6	-60.8	-23.3	54.4	62.5	-0.6	-90.7	-8.6	-40.7	-1.9	148.6	61.6
7th	-18.4	0.8	18.8	17.9	20.2	-1.3	-16.5	-16.2	-7.4	-10.5	7.4	15.2
8th	-4.7	3.9	10.5	44	-2.3	3	21.4	41.6	9.8	26.2	-11.9	-22.8
	75.2	-67.8	65.8	-123.6	54.3	-28.1	90.6	-144.4	80.6	-117.3	41.2	-71.3
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
17/22												
MEAN	-1980.9		-442.9		-314.4		-8179.5		-514.9		-71.2	
RMS	1170.6		208.9		425.2		2335.3		184.8		26.9	
1/2 P-P	2207.8		333.9		927.2		3726.9		302		48.5	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	1519.3	-401.6	-159.2	234	-284.2	-196.6	7.6	3241.4	-194.6	-155.9	27.2	-22.2
3rd	206.5	-9.8	-56.5	40.1	-246.6	383.5	107.8	-494.4	60.9	-26.1	-10.3	2.2
4th	85.4	-28.3	-29.2	-9	35.4	-54.6	80.6	115.6	-5.4	20.1	5.1	2.2
5th	-30.2	-263.9	-21.1	23.7	27.5	20.5	4.4	-29.5	-20.4	13.3	-5.8	2
6th	234.2	81.3	-4.1	7.1	8.3	41.2	23.9	-59.5	-11.7	-4.5	-0.3	-3.2
7th	28	19	10.5	-3.2	-18.6	1.5	18.9	3.8	-12.4	3.7	1.4	0.6
8th	-24.6	-38.1	-3.2	-4.1	6.7	3.5	18.1	17.7	-3.4	1.9	-1.2	2.5
	-45.4	57.6	-6.4	6.4	72	-49.5	94.4	-106.7	-11.1	6.4	-1	-0.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-383.4	66.3	272.8	417.6	318.6	-168.5						
RMS	385.7	245.4	184.3	265.7	307.8	550.7						
1/2 P-P	736.7	482.8	419.5	519.6	567.2	1061.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-151.5	-233.2	-81.4	-201.2	51.4	-221.2	131.5	-297.4	167.9	-344.4	345.7	-544.9
2nd	219	-381.4	136.8	-212.9	26.1	-41	-49.2	72.7	-87.2	112.9	-302.6	231.5
3rd	-38.3	-47.2	-15.2	-32.4	7.9	-16.7	20.7	-1.2	19.7	11.9	-18.4	142
4th	24.9	7.8	16.6	4.7	2.8	-3.7	-12.2	-10.4	-26.8	-6.8	-31.1	13.1
5th	-20.1	-11.1	-3.2	-3	19.6	4.1	39	13.1	36.6	19.4	-14.7	7.1
6th	12.7	3.2	6.2	1	-1.6	-4.2	-9.7	-8	-14.8	-5.5	15.9	12.9
7th	-1.2	-2.2	1.7	3.8	4.2	10.3	4.4	16.3	0.6	18.1	14.9	-20
8th	48.5	-33.7	2.4	-9.8	-65.1	17.4	-115.8	41.7	-108.1	48.5	157.5	-14.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-554	-751.9	-646.1	-8791.7	-2757.6	-444.6						
RMS	538.3	444.4	308.9	2025.6	803.4	185.6						
1/2 P-P	1010.2	979.3	837.2	3415.8	1621.6	311.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	317.5	-471.5	212.9	-339.2	-3.5	-82.6	-2785.5	206.2	-949.2	342.3	148.6	-197.8
2nd	-338.3	210.6	-256.1	141.2	-98.5	40	-46.6	495.9	262.7	-94	-62.2	31.8
3rd	-76.8	258.1	-108.8	255.4	-85	183.9	120.5	-69.2	-62.5	45.3	30.2	12.5
4th	37.5	57.8	31.7	78.9	-17.8	84.4	14.2	-22.9	-63.1	-238.2	-23.6	21.8
5th	-29.4	-52.1	-11.6	-71.2	13.6	-38.8	74	20.5	-156.3	-112.5	7.3	-10.7
6th	35.2	-6.6	5.7	-37.2	8	-44.9	-16.9	-23.7	23.7	33.7	14	-2.8
7th	11.4	-0.9	-32.5	23.7	-59.3	15.3	12.9	15.4	-14.8	-14.7	3.1	3.3
8th	-49.5	2.3	-180.7	90.7	-200.6	112.4	94.4	-105.5	-82	99	-6.8	4.7

RUN/POINT 17/21	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1167.6	403.7	456.5	-2763.6	-541.2	344.3	2979	305	2510.3	309.5	1759.9	-49.4
RMS	566.5	-279	416.8	-510.5	287.8	-438.8	-236.5	549	-180.4	414.6	15.9	135.4
1/2 P-P	1032.2	1.2	32.9	-55.1	60.8	8.1	-58.8	88.3	-41	59.2	9.3	-17.8
HARMONIC		26.5	34	19.1	29.1	24.7	-18.2	-10.1	-2.8	-12.9	45	-34.3
	1st	17.7	-29	35.3	37	-13.8	-30.5	-10.6	-6.3	-2.3	91.4	41.5
	2nd	-21.2	3	8.8	19.7	-6.1	-5	-5.8	2.9	-4	17.6	4.7
	3rd	2.6	5.6	18.6	-5.6	-8.2	-19.1	34.1	-21.7	18.4	-14.4	-27.4
	4th	64.7	-70.7	-95.3	40.1	-33.7	57.4	-105.3	50.8	-82.9	30.3	-51.7
	5th											
	6th											
	7th											
	8th											
RUN/POINT 17/21	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1968.6	-195.4	-424	236.7	-283.1	-245.3	-471	2537.1	-198.1	-139.7	27.7	-22
RMS	946.7	-17.4	204.7	41.2	338.4	450.7	266	-477.7	55.4	-30.2	-7.9	1.7
1/2 P-P	1713.7	-57	324.7	0.5	-13.2	-95.6	82.3	79.5	0.7	19.8	5.3	1.2
HARMONIC		-55.9	-17.3	25.2	24.7	16.4	2.1	-37.5	-19.2	18.4	-5.6	3.4
	1st	1289	66	8.6	30.1	15.2	-1	-23	-11.7	0.3	-0.9	-3.9
	2nd	94.2	-3.2	11.2	-7.3	6.6	22	-0.2	-11	7.3	1.7	-0.2
	3rd	17.8	-38.1	-6.9	-2.8	-0.2	-24.7	-8.8	-3.2	4.5	-0.4	2
	4th	78.6	44.8	-3.1	6.8	-65.3	50	-84.3	-7.7	8.5	-1.4	-0.3
	5th	127.9										
	6th	38.6										
	7th	5										
	8th	-22.8										

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	-1006	-317.5	118.4	355.5	271.7	-214.2				
RMS	428.2	266.6	179.4	258.1	299.7	538.2				
1/2 P-P	794.1	495.1	416.5	512	558.1	1088.1				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd
1st	-89.4	-210.4	-186.9	66	-208.1	139.7	-326.4	354.7	-520.2	267.8
2nd	326.9	-437.7	-245.2	53.9	-50.7	-39.7	77.5	-80.7	124.2	-280.2
3rd	-76.7	4	-31.1	8.4	-10.5	37	-11.3	41.7	-3.2	28.1
4th	23.9	11.4	6.9	5.1	-0.8	-5.9	-8.8	-18.6	-5.7	-26.9
5th	0.7	15.6	7.6	16.7	-4.9	24.4	-14.7	18.3	-14.7	-17.7
6th	18.4	-2.3	-1.5	-2.6	-2.2	-13.8	-2	-19.2	1.4	12.8
7th	-1	4.4	4.2	10.3	3.5	12.8	3.3	8.2	-0.1	-8.9
8th	52.7	-38.1	-8.6	-60.2	26.6	-110.4	55.1	-103.6	60	155.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	-545.8	-703.6	-554.3	-8834.8	-2764.1	-426.5				
RMS	506.8	411.4	279.3	1580.3	619.5	179.8				
1/2 P-P	937.8	929.6	732.9	2686.9	1120.8	293.2				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd
1st	306.7	-463.2	-335.7	-3.4	-83	-2126.4	-353.5	193.8	132.8	-199.2
2nd	-264	258.1	179.7	-40.4	51.6	-223.8	470.4	-100.7	-59	34.6
3rd	-50.9	216.5	234	-58.6	174.1	86.3	-77.5	62.8	30.3	4.5
4th	40.2	45.5	61.6	-7.2	74.6	12.9	-28.4	-43.7	-22.2	25
5th	-7.4	12.8	6	23.3	15	29.5	6	-59.9	2.5	-10.3
6th	40	-20	-39.4	20	-37	-8.6	-2.4	25.5	11.9	-7
7th	14.7	-1.2	5.6	-33.3	-2.2	-39.6	-18.4	31.7	22.3	2.5
8th	-45.6	9.9	103.6	-197.3	119.2	51.2	-91.4	-36.9	-4.8	5.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2505.5		-6439.1		-2498.9		-6882.6		-3583.6		-1421.6	
RMS	629.2		1301.4		677		1444.3		1213.5		859	
1/2 P-P	1104.7		2244.3		1159.9		2480.5		2056.5		1538.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	426.5	505.5	781.4	-1587.7	-632.2	360.1	1764.1	847.5	1472.5	763.5	1142.8	287.5
2nd	-276.6	462.1	198.4	-413.4	287.7	-484.5	-266.7	464.7	-205.7	346.8	-34.8	127.7
3rd	143.4	177.4	-93.4	-25.2	206.4	-125.2	-40	112.9	-24.6	71.1	-2.9	-19.1
4th	1.9	-3.8	24.6	23.5	1.8	-14.3	-18.9	11.3	-12.8	28.8	-6.8	117.1
5th	4.3	-54	30	38.3	65.3	-32.9	-63.4	26.8	-23.3	15	150.3	-5.9
6th	-7.5	-1.2	5.2	9.8	5.2	-7.8	8.9	14.5	12.7	9.3	7	-8
7th	10	1.5	3.6	-5.6	-9.1	-9.7	23.6	9.4	13.5	2.8	-9.6	-20.3
8th	30.4	-61.9	1.4	-49.5	16.5	-44	3.7	-63.5	6	-48	8.7	-29.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1871.5		-385.9		-2263.4		-8183.2		-441.7		-76.4	
RMS	676.1		203.7		549.6		1223.3		176.7		25.8	
1/2 P-P	1295.8		311.5		970.5		2134.3		274.7		40.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	889.2	81.5	-120.3	250.9	-280.1	-283.5	-987.7	1316.7	-213	-115.6	25.6	-23.2
2nd	37	2.4	-33.8	39.9	-323.2	498	270	-397.5	32	-31.7	-3.6	0.7
3rd	-20.6	-60.7	-37.8	5.9	-150.9	-243.6	111.6	64.5	-3.4	26.6	7.7	3.1
4th	16.5	152.9	0.1	30.2	-11.4	-23.3	-7.5	-35.8	0.1	23.8	-2.8	5.1
5th	222.4	-33.7	5.4	2.4	42.2	38.1	-45.5	-38	-5.1	5.4	-1.3	-3.4
6th	14.6	-23.4	7.3	-6.3	-12.3	6	7.2	-17.7	-8.3	6.6	1	-0.3
7th	-19.1	-11.5	-7.8	-0.3	-6.4	3.1	3.8	-22.9	-1.3	4.9	1	1.4
8th	8	38.5	2.1	6	30.9	-49.3	6.9	-57.1	-2.6	7.5	-1	0.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.375$	Blade 1, $r/R=0.425$	Blade 1, $r/R=0.475$	Blade 1, $r/R=0.525$	Blade 1, $r/R=0.575$	Blade 1, $r/R=0.625$	Blade 1, $r/R=0.675$
MEAN	-2331.7	-1140.2	-228.4	198.5	146.2	-334.9						
RMS	487.1	300.3	189.1	258.7	295.8	521.1						
1/2 P-P	810.4	524.7	430.3	475.2	570.2	995.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.375$	Blade 1, $r/R=0.425$	Blade 1, $r/R=0.475$	Blade 1, $r/R=0.525$	Blade 1, $r/R=0.575$	Blade 1, $r/R=0.625$	Blade 1, $r/R=0.675$
1st	-3.4	-243.8	18.1	-207.6	83.6	-208.5	146.5	-267.9	177.3	-302.8	381.6	-466.3
2nd	320.8	-485.5	201.3	-273.6	59.8	-59.3	-25.7	79.3	-61.8	130	-237.8	285.9
3rd	-219.9	143.4	-118.5	71.8	2.4	2.9	84	-39.5	110.5	-48.4	180.2	6.3
4th	-6.4	-20.4	0	-8.4	4.7	5.2	5.8	13.2	-0.5	20	-18.7	19
5th	-35.7	19.8	-7	8.1	32.3	-6.5	66.4	-19.6	69.9	-23	-19.5	0.3
6th	5.3	1.2	3.6	2.6	3.2	3.9	1.8	5.7	-1.6	6.6	4.5	-2.1
7th	6.8	5.8	8.6	3.1	13	-1.3	12	-3.4	5.5	-1.5	-8.3	-4.5
8th	23.2	-30.5	2	-7.2	-28.9	22.8	-53.1	46.8	-49.4	49.1	83.3	-43.4
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
MEAN	-532.2	-580.3	-336.9	-8840.2	-2727.9	-385.7						
RMS	474.1	363.3	272	1070.7	493	175.6						
1/2 P-P	905	802.7	680.8	1897.2	1124.1	279.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
1st	304.6	-426.9	188.1	-304.7	12.1	-66.5	-1053	-950.7	-565.1	-18.6	108.5	-210.9
2nd	-183.4	295.4	-99.4	204.8	-5.5	51.2	-240.9	394.8	95	-76.7	-36.3	33.5
3rd	68.7	120.7	43.9	179.5	50.4	154.6	64.1	-115.8	57	54.3	40.1	2.8
4th	-2.2	-16.8	-40.4	-32.1	-71.2	6.1	34.8	-16.3	-144.9	212.5	-3.3	28.7
5th	-110	41.7	-96.1	38.9	-71.4	18.3	70.3	-18.3	-163.7	-3.4	-6.8	-6.5
6th	20.8	-28.6	9.9	-22.3	31.2	-16.5	-22	8.3	38.1	-15	7.6	-6.7
7th	24.5	-2.4	0.1	-19	-19.6	-11.1	-10	-30.7	10.3	28.7	7.8	-0.4
8th	-23.5	10.7	-86.5	86.7	-112.6	86.9	6.2	-48.5	-0.5	41.4	-0.2	3.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3752.9		-6468		-3772.8		-6874.1		-3636.9		-1353.2	
RMS	909.2		1317.2		1046.4		1445		1188.2		804.1	
1/2 P-P	1620.8		2083.7		1833.4		2354		1940.9		1496.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-21.6	1036.3	1407.9	-1102.5	-1241.2	-91.2	1297.6	1461	1028.5	1252.5	884.7	620.4
2nd	-302.7	583.9	262.9	-380	333.6	-604.8	-339.6	419	-265.4	302.2	-94.9	110
3rd	219.4	286	-120.5	-27.9	320.8	-188.2	-44.8	126.6	-21.2	82.9	15.7	-11.1
4th	-23.9	-37.9	61.7	20.6	-16.1	-42.7	2.9	16	-24.5	30.8	-150.1	98.8
5th	-54.7	-31.6	91.1	8	57.6	-95.7	-45.6	104	-15.3	50.7	144.8	-146
6th	1.1	5.8	-1.4	-3.9	-10.5	-15.5	23.6	-0.3	20.2	-2.7	-10.9	-21.7
7th	10	-3.4	17.7	39.8	-9.3	-12.1	36.3	42.7	20	32.6	-13.6	-7.3
8th	-19.4	-45.2	-21.7	-19.1	-35.1	-24.4	-20.7	-19.6	-15	-11.5	-4	-11.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1797.9		-354.2		-3492.8		-8154.5		-398.9		-80.2	
RMS	641.5		217.1		856.7		1363.5		190.3		24.5	
1/2 P-P	1270.8		338.7		1570.5		2239.1		305.6		44.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	713.9	323.6	-113.5	265.9	157.3	-843.4	-1594.7	924.1	-231.5	-108.3	29.4	-13.3
2nd	-16.7	-5.8	-26.3	60.7	-373.4	612.7	348.7	-363.1	21.8	-50	-0.4	-0.3
3rd	11.7	-54.1	-48.7	30.3	-229.5	-374.1	138.9	73.8	16	37	8.2	2.7
4th	-198.2	141.6	9	49.1	-41.6	-54.4	18.7	-22.8	17.4	43	-0.8	8.4
5th	194.8	-261.1	4	-4.8	96.7	26.5	-102.9	-38.1	2.8	5.9	-1.4	-0.7
6th	-15.2	-23	0.1	-4.6	5.6	18.6	-18.5	-33.6	-2.7	6.3	0.1	-1.4
7th	-34.9	-20.8	-6.9	2.7	-8.7	5.9	13.1	19.8	0.9	5.4	0.9	-0.5
8th	22.6	13.4	7.5	2.6	-18.3	-29.1	-23.8	-10.7	5.2	4.2	-0.2	0.5

MEAN	-3557.9	-1900.8	-549	54.3	30.6	-447.5
RMS	708.5	419.2	199	263.5	314.3	566.7
1/2 P-P	1350.4	793.3	382.5	614.6	656.1	1086

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	535.8	181.8	351.4	59.1	221.4	-89.4	205	-210.9	221.7	-255.6	444.8	-417.8					
2nd	356.7	-610.8	225.3	-347.7	71.2	-79.6	-18.5	91.7	-53.2	153.3	-195	352.4					
3rd	-343.4	211.4	-188.7	108.7	-5	9.9	119.9	-53.3	164.9	-71.5	319.7	-34.7					
4th	-36.7	-55.7	-14.8	-27.2	4.3	8.1	15.4	31.5	14.8	44.1	-6.5	32.6					
5th	-27.3	77.3	-4	30.5	33.3	-27.3	65.6	-81.8	66	-99.1	-26.2	-8.1					
6th	-6.7	-7.2	-1.2	-0.9	5.7	8	11.2	16	10.5	17.3	-5.2	-14.8					
7th	6.5	9	6.4	3.7	7	-5.6	5.4	-10.7	0.2	-8.2	-7.4	7.8					
8th	-18.5	-30.7	-1.5	-5.3	19.1	30.2	31.1	58.1	30	55.6	-5.7	-79					

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.400$

MEAN	-505.8	-462	-134.2	-8828.4	-2709.4	-349.5
RMS	520.1	424.1	285.2	1303.1	506.7	185.2
1/2 P-P	1125.5	873.5	748.8	2091.9	1114.2	297.3

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	330	-413.9	191.9	-302.9	23.3	-74.7	-698.3	-1611	-467.5	-179.1	99.4	-223.8							
2nd	-58.8	379.6	27.6	265.2	66.2	58.7	-311.7	382.4	39.2	-71	-26.2	51.4							
3rd	196.2	66.5	178.8	165.9	166.3	159.9	72	-132.7	34.2	63.2	51.2	-14.7							
4th	-22.7	-62.6	-93	-112.8	-113.5	-51.9	59.5	-2.3	-320.8	210.1	11.5	44							
5th	-117	193.5	-92	213	-81.6	111.6	59.1	-93.2	-168.2	172.6	-5.2	3.7							
6th	6.8	-41.3	3.4	-0.4	41	14.3	1.9	13.1	9.9	-29.6	1.7	-5.7							
7th	29	4.2	2.7	-36.4	-21.5	-9.3	-4.7	24.5	5.6	-29.2	6.3	-3.1							
8th	7.6	26.1	36.5	101.2	5.2	86.4	-23	-7.8	23.3	6.8	5.4	1.9							

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325		
41/18													
MEAN	1699.6	-1338.5	-1338.5	1809.1	-1891.3	790.8	499.3						
RMS	426.3	5016.8	5016.8	377.6	4915.7	4170.4	2766.3						
1/2 P-P	814.9	7548.1	7548.1	695	7498.6	6387.4	4692.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	296.4	226.3	-4478.8	-5426.9	-147.5	236.4	5144.7	-4579.8	4423.6	-3819.5	2676.5	-2640.4
	2nd	253	55.5	-672.7	-448.3	-248.8	-89.9	713.3	470.4	582	396.4	404.6	146
	3rd	-232.2	-289.1	-2.8	-247.2	-266.2	225	-222.7	-21.8	-149.4	-3.3	170.5	46.1
	4th	37.4	43.5	19	130.3	46.5	42.3	63.2	-61.9	61	-201.6	-8.4	-910.1
	5th	107.6	4.1	-87.8	59.5	-2.4	97.5	-79.6	-86.3	-32.6	-19.9	120.8	274.3
	6th	-23.3	3.2	-9.2	8.4	23.7	0	8.8	-30.9	7	-8.5	22.6	24.7
	7th	5.7	12.1	7.5	7.9	7	-5.2	12.8	28.2	6.1	15.9	-8.4	-19.8
	8th	1.6	-54	-166.4	-157.3	3.7	-26.4	-168.6	-171.4	-136.2	-163	-77.8	-109.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1		
41/18													
MEAN	-989.8	-502.9	-502.9	0	-3146.2	-588.2	-71.3						
RMS	2129.2	186.1	186.1	0	4902.7	182.6	8.3						
1/2 P-P	3906.5	321.8	321.8	0	7439.4	312.2	17.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	1694	-2045.5	172.8	0	4439.6	5257.7	-152.6	-195.7	2.3	8.5		
	2nd	341.3	24.4	56.9	0	-621.8	-443.8	55	-32.8	3.9	-5.8		
	3rd	353	74.6	13.5	0	-38.2	233	2.2	-7.3	0.2	0.3		
	4th	-113.8	-1233	8.4	29.6	0	-59.3	13.6	23.5	0.1	-0.1		
	5th	200.3	398.8	-5.2	10.7	0	-50.8	-10.4	-6	-0.2	0		
	6th	14.5	49.2	2.3	-0.7	0	20.1	-1.8	0.3	-0.1	0.1		
	7th	-32.9	-25.1	2.2	-1.5	0	31.7	-1.6	-1.3	-0.3	0.1		
	8th	62.9	52.7	-0.8	4.5	0	-154.9	-1.8	6.1	0	0.2		

RUN/POINT 41/18	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.167$	Blade 1, $r/R=0.215$	Blade 1, $r/R=0.280$	Blade 1, $r/R=0.325$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.570$
MEAN	1771.6	1457.8	890.6	0	633.6	275.5				
RMS	352.5	211.9	147.1	0	274.1	474.7				
1/2 P-P	689.1	401.4	296.8	0	563.8	967.9				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd
	-233.6	-177.2	-135.6	6.3	-192.1	0	73.9	-316.1	71.3	-529
	-198.6	-95.4	-52.2	-45.2	5.6	0	-28.7	60.4	-161.6	84.7
	242.7	-207.4	-115.2	13	-28.9	0	-121.8	69.3	-303.6	189.6
	35.9	35.6	10.5	6.2	-23.3	0	-26.5	-48.3	-38	-6.6
	11.1	-77.3	-29.3	-8.4	28.3	0	-30.1	104	12.7	3
	20	-1.5	-2	-8.1	-4.4	0	-28.1	0.5	15	12.2
	-7.4	4.6	0.5	12.1	-2.7	0	14.5	-4.4	-18.2	0.9
	-6.5	-39	-8.1	-12.2	26.2	0	-9.6	57.6	36.4	-64
RUN/POINT 41/18	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	-268.2	-712.5	-913.2	-3454.2	-2142.9	-501.6				
RMS	551.2	565.2	384.6	4773.1	1733.6	171.9				
1/2 P-P	1112.2	1211.3	878.7	7150.1	3359.2	309.6				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd
	54.7	-488.1	97.6	-360.9	-20	-4610.7	4850.8	-982.7	1561.5	-149.4
	-412.1	28.1	-520.5	0	-364.7	696.9	367	343.8	-79.6	46.3
	-230.7	300	-223.7	268.5	-243.1	252.4	43	-396.5	-64.2	6.3
	-9.7	45	64	107.8	84	-33.8	62.3	302.1	-1424.8	28.4
	83.8	-197.2	76.5	-270	112.2	64.8	78.6	-126.5	-307.5	-12.6
	45.6	-2.8	20.7	-11	-41.3	9	-16.8	-0.6	36.7	-1.4
	-0.2	-7	9.9	-4.4	-8.5	26.6	-21.8	-3.9	22.3	0.2
	-23.3	15.6	-22.5	79.5	6.2	-156.1	-156.5	171	153.1	5.6

RUN/POINT 41/17	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	369.1	-2638.2	441.2	-2972.2	-199.6	140.1						
RMS	296.7	2986.8	282.2	2953	2504.3	1721.6						
1/2 P-P	544	4641.2	493.8	4652	3981.8	3067.4						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	244.8	53.7	-2536.3	-3318.4	-41.9	215.5	3236.6	-2553.3	2782.5	-2120.5	1743.5	-1549.4
2nd	182.9	75.9	-454.5	-307.4	-182.9	-105.8	451.7	365.7	367	302.5	264.6	97.2
3rd	-176.8	-167.8	-48.3	-143.5	-152.1	174.8	-136	37.9	-90.4	36.6	106.5	24.7
4th	31.7	37.6	0.5	55.3	40	34.2	32.2	-44.4	37.2	-124.2	24.9	-531.5
5th	81.9	-38.2	-78.6	96.3	46.2	67.7	-113.8	-99.9	-50.4	-43.7	179.7	217.1
6th	-16.8	5.9	9.3	3.3	18.9	-2.3	6.6	-7.4	4.2	1	27.9	0.6
7th	2.6	13.5	13.7	12.4	10.3	-4.2	30.8	32.6	22.4	19.6	0.7	-13.7
8th	8.4	-40.1	-116.6	-132	10.4	-20.1	-121.1	-144.1	-96.7	-138	-56.7	-87.8
RUN/POINT 41/17	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1110.8	-488.7	0	-4384.4	-566	-89						
RMS	1351.5	171.6	0	2840.1	163.6	11.8						
1/2 P-P	2606.1	291.3	0	4489	285.5	24.4						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1133.7	-1239.3	-145.2	183.6	0	0	2480.8	3102.9	-159.6	-156.2	12.7	8.7
2nd	222.7	2.8	-38.2	42.9	0	0	-404.6	-295.5	48.2	-23.2	4	-4.2
3rd	216.1	34.3	18.2	2.7	0	0	38.9	159.2	9.1	-13.3	0.2	0.6
4th	-11.9	-713.8	5.1	19.1	0	0	17.2	-40.3	8.1	19.6	0.2	0
5th	292	324.8	2.6	6.6	0	0	82.2	-89.9	-4.2	1.1	0.2	0
6th	16.2	10.2	2.8	-0.8	0	0	7.2	10.4	-3.8	-0.6	0	0.1
7th	-27.1	-14.4	0	-2.3	0	0	25.1	-9.4	-0.9	-0.8	0.2	0
8th	40.2	48.3	-0.4	3.3	0	0	-94.7	-139.1	-2.2	4.3	0.2	-0.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb			
	Blade 1, $\tau/R=0.144$	Blade 1, $\tau/R=0.167$	Blade 1, $\tau/R=0.215$	Blade 1, $\tau/R=0.280$	Blade 1, $\tau/R=0.325$	Blade 1, $\tau/R=0.570$						
MEAN	435.1	626.6	550.5	0	508.5	129.9						
RMS	319.3	196.3	128.6	0	236.3	404.4						
1/2 P-P	623.2	365.6	242.6	0	488.9	834.2						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
	1st	-336	-123.8	-110.7	-31.8	-167.5	0	0	59.1	-285	86.5	-469.7
	2nd	-119.5	-115.4	-62.5	-62.9	-25.9	0.1	0	0	-25	-146.5	98.3
	3rd	125.8	-152	74.4	-86.3	6.9	-22.4	0	0	-70.6	-186.1	173.5
	4th	33.9	27	19.6	9.1	3.9	-16.8	0	0	-26.3	-32.9	-1.2
	5th	-31	-59.3	-9.9	-21.7	11.4	25.8	0	0	31	90.6	10.1
	6th	16.2	-5.7	7.9	-3.8	-5	-2	0	0	-22.2	6.9	11.2
	7th	-8.2	5	1.2	3.4	13.2	2.9	0	0	15.7	2.9	-19.3
	8th	-1.1	-20.6	-4.8	-7.8	-10.9	11	0	0	-14.1	29.1	29.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400						
MEAN	-307.3	-656.3	-751	-4808.4	-2242.8	-493.5						
RMS	463.3	457.9	287.8	2666.1	1089.5	152.2						
1/2 P-P	939.4	936.2	690.4	4090.1	2220.1	263						
HARMONIC												
1st	COSINE 82	SINE -422.6	COSINE 103.3	SINE -298.5	COSINE -9.9	SINE -74.8	COSINE -2528.5	SINE 2725.3	COSINE -625.6	SINE 959.7	COSINE 135.4	SINE -152.9
2nd	-330.5	67.6	-393.6	35.8	-257.1	21.9	459.7	289.5	247.9	-77.7	-52.9	33.6
3rd	-145.1	271.6	-151.8	261.6	-167.3	163.9	150.5	-27.1	-231.4	-18.7	-13.1	-1
4th	5.9	33.7	58.3	72.9	57.7	63.2	-21.7	52.7	156.9	-845.4	-1.2	16.3
5th	-34.7	-169.2	-56.2	-226	2.1	-136.2	95.9	97.6	-213.2	-288.7	0.1	-10.2
6th	40.3	-12.3	16.4	-17.5	-26.6	-25.1	-7.6	-14.6	8.4	23.7	1.9	0.3
7th	-0.8	0.1	21.3	8	7.5	-0.3	21.2	-14.5	-13.9	14.2	1.3	0.8
8th	-17.9	5.8	-27	39.3	-3.5	56.5	-101.4	-134.3	108.2	132.7	-2.1	2.7

RUN/POINT 41/16	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-409.4	158.4	-3195.6	-2722.8	-347.7	215.3	-3517.5	-1713.9	-687.1	-1411.4	-34.3	-1098.1
RMS	286.9	124	2294.2	-303.3	272.9	-142.8	2352.6	325.7	1987.5	266.3	1381.2	82.1
1/2 P-P	534	-138.3	3595.4	-89.3	515.1	136	3787.5	42.2	3205.3	38.6	2422.2	14.4
HARMONIC	1st	253.7	21.2	69.1	32.2	19.5	34.5	-27.7	34.7	-89.9	18	-432.4
	2nd	121.5	-12.6	59.6	17.2	52.4	-68	-77.2	-27.4	-31	104	162.1
	3rd	121.5	124	0.9	17.4	-1.7	1.3	-6.7	0.5	0.8	25.6	-0.1
	4th	-138.3	-128.6	28.5	6.8	-4.2	12.6	30.3	7.9	17.3	0.1	-15.6
	5th	24.9	21.2	-118.4	-145.3	7.8	-119.5	-163.1	-93.4	-150	-55.3	-94.5
	6th	66.7	-12.6									
	7th	-14.2	3.2									
	8th	0.5	10.3									
RUN/POINT 41/16	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1185.7	-919.4	-478.9	187.9	0	0	-4915	2537.7	-553.5	-141.5	-97.2	11.5
RMS	1082.3	-2.9	169.4	41.3	0	0	2157.6	-273.5	156.3	-25.3	14.8	-3.5
1/2 P-P	2043.9	23.8	277.8	6.7	0	0	3387.2	104.3	263.6	-14.9	27.9	0.7
HARMONIC	1st	1006.2	-573.7	13.8	0	0	1629.3	-13.2	-159.4	14.6	0.1	0.1
	2nd	160	246.9	5.7	0	0	-263.6	-56.9	45.9	1.4	0.1	0
	3rd	128.5	8	1.9	0	0	39.2	3.9	12.5	0.3	0	0.1
	4th	-21.1	-20.4	-0.4	-0.8	0	12.6	6.7	0.5	0.1	0.1	0
	5th	167.2	53.5	-0.2	2.7	0	56	-149.1	-4.5	0	0.4	0.1
	6th	11.5					15.1		-3.7			
	7th	-13.5					10.7		-0.3			
	8th	39.4					-93.9		-1.6			

MEAN	-325.3	155.9	357.9	0	444.9	54.2
RMS	251.2	157.5	119.1	0	215.9	378.1
1/2 P-P	483	290.5	233.2	0	448.9	756.6

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-233.2	-132.5	-139.5	-115.9	-7	-159	0	0	70.9	-267.3	116.1	-442.1
2nd	-61.2	-151.8	-28	-84.3	-14.8	-8.4	0	0	-28.7	58.9	-151.4	115.2
3rd	94	-116.3	56.5	-66.5	8.6	-20.3	0	0	-47.7	36.7	-136.4	134.1
4th	29.4	10.5	18.5	1.2	5	-13.8	0	0	-21.7	-20.3	-25.2	7.5
5th	-9	-38.9	-1.2	-14.1	5.2	15	0	0	7.3	58.7	5.8	4.3
6th	10.8	-1	5.2	-1.9	-3.3	-3.3	0	0	-17.1	1.9	10	9.3
7th	-6.4	4.6	1.1	2.1	11.5	-0.3	0	0	12.6	-1.7	-15.9	-2.9
8th	-3.5	-29.7	-4.5	-9.5	-6.8	20.1	0	0	-8	45.5	30.4	-48.3

Flap Bending, in-lb	Flap Bending, in-lb	Flap Bending, in-lb	Chord Bending, in-lb	Torsion, in-lb
Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.400$

MEAN	-316.7	-615.9	-654.8	-5379.2	-2301.5	-485.2
RMS	417.5	394.9	241.5	2001	879.7	148.9
1/2 P-P	818	815	599.1	3191.5	1887.3	252.5

HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	104.6	-408.9	106.5	-294.7	-6.3	-76.2	-2054.5	1879.1	-545.4	742.6	123.8	-157.4							
2nd	-281.5	104.9	-319.1	70.8	-198.4	31.3	312.8	277.9	190.6	-71.7	-49.1	34.7							
3rd	-114	225.4	-120.1	229.8	-126.1	153.2	92.4	-28.3	-155.5	-3.5	-15.9	-5.5							
4th	6.1	32.9	42.8	64.3	37	65.9	-27.5	49.7	192.6	-685.1	-4.2	12.9							
5th	5.7	-112	-0.6	-153.6	34	-95.1	68.5	71.3	-135	-206.5	-2.6	-8							
6th	31.4	-7.4	14.1	-12.9	-12.2	-22.2	-12.2	-20.5	10.7	30.3	3.9	-0.6							
7th	0.6	-2.5	14	-3	-1.1	-6.8	10.4	10.3	-6.2	-8	0.9	1.7							
8th	-14.7	13.4	-19.8	66.7	-6.4	80.2	-106	-154.9	114.9	150.7	-1.1	1.3							

RUN/POINT 41/15	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1081	-3674.5	-1033.8	-4002.3	-1131.6	-220.8						
RMS	452	2139.4	466.3	2283.6	1909.9	1289.6						
1/2 P-P	834.8	3281.8	835.4	3540.2	2937.2	2293.1						
HARMONIC	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	318.4	511.9	-962.5	-2832.7	-559.8	276.7	3050.2	-958.4	2564.1	-762.7	1635.7	-683
2nd	58.9	138	-189.9	-314.7	-54.8	-148.8	180.5	321	147.4	263	120.1	86.9
3rd	-88.4	-73.5	-57.5	-61.2	-65.8	85.1	-65.2	62.3	-43	52.1	46.3	16
4th	18.5	19.5	-8.7	55.1	25.6	16.9	10.5	-8	24.5	-46.5	69.4	-267.3
5th	54.2	-41.8	-48.4	62.8	47.5	39	-90.4	-38.3	-39.7	-12.1	148.8	120.9
6th	-16.6	6.5	24	-2.9	12.9	-5	-11.5	-5.1	-10.1	-1.9	26.8	-9
7th	1.9	7.3	3.1	-17.1	4	-1.7	2.2	-19.6	1.6	-19.6	-7.2	-21.2
8th	0.6	-32.7	-89.5	-94.5	-3.2	-20.6	-101	-112.1	-78.5	-101.9	-48.6	-68.9
RUN/POINT 41/15	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1254.4	-459.7	0	-5386.5	0	-101.8						
RMS	972.8	164.1	0	2025.8	0	19.3						
1/2 P-P	1873.1	269.7	0	3130.4	0	33.3						
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1094.8	-620.5	-120.5	190.7	0	0	900.4	2690.1	-160.3	-123.1	19.8	17.8
2nd	120	9.1	-35.4	35.8	0	0	-138.1	-275.8	40.5	-23.7	3.7	-3.3
3rd	95.8	10.1	13.8	4.9	0	0	55.3	81.5	10.2	-11.7	0.2	0.4
4th	72.6	-359.2	1.7	12.9	0	0	-6.2	-11.6	1.7	10.9	0.2	0.1
5th	232.8	160.3	4	1.5	0	0	37.7	-62	0	3.2	0	0.1
6th	25.7	0.2	1	-1.1	0	0	5.4	7.5	-2.3	1.9	0	0
7th	-10.4	10.7	-1.2	-0.3	0	0	-3.7	-28.2	-0.5	0.6	0	0.1
8th	38.2	38.9	0.7	2	0	0	-81.3	-109.6	-0.3	3.7	0.2	-0.1

RUN/POINT 41/15	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-986.8	-185	-254.3	-147.1	189.6	-162.5	0	0	387.4	-248.1	8.5	-407.3
RMS	216.5	-1.2	144.7	7.8	134.5	-12.4	0	0	204.5	57.6	351.6	114.9
1/2 P-P	400.2	42.8	261.9	27.7	256.5	-41.5	0	0	412.5	21.5	660.6	112.5
		19.1		13		-8.4	0	0		-11.7		4.7
		8.8		-13.2		13.3	0	0		49.9		1.7
		-33.1		-4.8		0.2	0	0		-16.9		6
		15.1		8.7		-1.1	0	0		8.7		-13.4
		-3.6		-0.9		10.5	0	0		-0.3		-4
		2.2		-2.2		-7.8	0	0		-14.1		27.6
		-15.4		-5		10.5	0	0		23.7		-26.2
RUN/POINT 41/15	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-322.2	-378.6	-574.6	-268.6	-561.3	-61.2	-5879	1100.3	-2343.8	532.7	-467.8	-160.4
RMS	389.8	110.5	353.4	76.2	204.1	30.8	1836	297.6	731.4	-58.8	143.1	30.6
1/2 P-P	732.9	192.4	675.8	-98.6	505.3	-102.1	2976	-47.2	1783.5	6.5	237.2	-3
		-2.8		19.4		7.7		36.8		-2.2		10.7
		-79.8		-95.5		-39.6		48.2		-155.3		-2.8
		31.4		16.9		-2		14.5		2.9		-2.1
		-18.7		-17.9		5.1		26.4		1.5		0.9
		-2		2.1		-18.1		104.4		-0.3		1.5
		7.8		37		47.2		-108.4				

RUN/POINT 41/14	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-2354.3	-4660.3	-2322.3	-4973.4	-2014.4	-569.8					
RMS		263	816.2	274.3	988.1	826.5	611.9					
1/2 P-P		475.3	1511.1	487.9	1695.3		1086.6					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	266.1	124.1	-278.9	-1068.2	221.8	-210.4	1125.1	-154	791.8	-273.5	
	2nd	10.3	217	-99.5	-248.8	-7.5	-219.4	117.8	254.8	200.5	88.2	47.6
	3rd	-34.6	10.1	-44.9	-15.3	24	43.7	-19.8	47.8	-10.5	35.3	-9.4
	4th	8.8	0.8	-3.5	28.5	11.2	-2.5	2.2	-20.4	2.5	-33.7	-123.9
	5th	2.5	-18.4	1.6	32.3	20.9	-5	-35.8	1	-13.8	1.7	14.2
	6th	-11.8	8	18.8	-3.4	8.5	-7.4	-0.6	-8.5	-0.6	-3	-16
	7th	-0.4	3.9	-17.9	-6.7	1.4	-1.8	-11.4	-0.5	-10.5	-4.5	-20.1
	8th	-2.8	-20.9	-53.1	-25.4	-6.4	-11.3	-64.1	-33.7	-53	-29.8	-28.5
RUN/POINT 41/14	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1398.6	-422.1	0	-6302	-484.9	-104.3					
RMS		487.4	167.4	0	644.9	147.6	16.9					
1/2 P-P		943.1	265.6	0	1159.9	235.3	29.6					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	566.6	-307.2	-106.3	205.3	0	181.1	841.8	-173.4	-106.2	21	10.3
	2nd	81.2	-16.2	-21.1	43	0	-60.4	-222.3	25.9	-37	2.3	-2.8
	3rd	39.7	-26.6	11.6	0.7	0	42.1	47.7	0.9	-10.5	0	0.2
	4th	-29.7	-150.6	4.1	9.5	0	7.8	9.3	1.4	5	0.3	-0.1
	5th	85.8	1.1	2.4	-1.5	0	-3.8	-30	2	1.9	0	0
	6th	16.3	-0.7	0.6	-1.3	0	2	3.7	-0.7	2.3	0.2	-0.2
	7th	1	-0.2	-1.7	1.3	0	-13.8	-11.9	0.3	1.5	0.1	-0.1
	8th	27.3	10.6	1.4	1.6	0	-58.3	-32.1	0.9	3.4	0.1	-0.2

RUN/POINT 41/14	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2236.8	-1030.6	-128.1	0	280.1	-104.9						
RMS	257.7	160.9	107.7	0	180.6	329						
1/2 P-P	500.2	298.4	207.8	0	334.5	605.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-228	-145.1	-129.7	-123.7	-10.6	-141.8	0	0	78.1	-223.1	175.7	-367
2nd	40.2	-228.6	33.5	-129.2	9.4	-24.5	0	0	-30.2	63.6	-131.9	154.6
3rd	-35.6	-29.5	-15.7	-20	4.4	-11.3	0	0	17	4.2	8.6	75.4
4th	6	-3.7	6.7	-3.4	5.2	-5.3	0	0	-8.2	-1.6	-15	19.1
5th	-13.7	5.9	-2.1	2.5	12.9	-2.4	0	0	22.5	-2.9	-6.9	2.6
6th	10	-12.5	7.3	-5.4	1.7	2.3	0	0	-9.3	15.8	-2.5	-3.5
7th	-1.4	0.3	3.3	-1	9.9	-0.5	0	0	6.9	1.1	-12.2	-2.4
8th	4.1	-15.3	1.4	-2.4	-3.2	15.1	0	0	-10.6	27.3	23.1	-31.4
RUN/POINT 41/14	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-343.7	-492.5	-381.4	-6863.7	-2437.5	-427.9						
RMS	343.9	288.5	147.6	526.3	400.3	144.9						
1/2 P-P	622.8	561.6	358	1103.2	1018.5	232.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	166.2	-355.9	128.5	-265.5	14.9	-68.7	388.2	317.5	-276.9	95.9	-174.4	38.2
2nd	-172.8	171.6	-158.5	134.3	-81.5	49.4	251.1	-49	90	-27.3	38.2	2.4
3rd	-12.9	133.3	-34.2	153.7	-34.6	117.3	-33.1	43.3	-26.7	-7.8	2.4	5.4
4th	9.8	20.2	19.3	22.8	0.5	33.6	44.3	-303.1	-12.2	0.4	5.4	1
5th	-33.7	1.3	-29.7	-9.2	-5.3	-14	6.3	-21.1	-71.3	-2	-2.6	-0.7
6th	29.1	-23.2	27.7	-21.1	22.2	-14.4	25.8	17.3	0.5	1.6	2	1.8
7th	8	-3.1	19.8	-1	9.6	6	-16.6	30.9	19.9	2	0.9	
8th	-4	12.5	-14.8	47.5	-14.4	49.3	-34	50	50	0.9		

RUN/POINT 41/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3691.3	442.8	519.8	-804.7	-577.6	101.7	1136.1	611.2	922.1	535.8	674	197.2
RMS	394.3	262	55.7	-217.7	96.2	-253.5	-40.9	219.1	-30.4	166.8	0.9	42.7
1/2 P-P	719.7	114.2	-44.4	8	130.3	-41.7	-5.8	56.7	2.1	35.1	14.2	-19.7
HARMONIC		1	-4.1	9.2	-0.6	-17.8	0	-8.9	4.9	-11.7	-0.9	-40.6
		-3.8	-51.9	23.8	51.2	-20.1	-64.6	32.9	-27.3	17	126.2	-30.8
		-3.1	14.7	3.1	-15.7	4.1	0.6	10.5	0.8	7.8	19.6	-28.4
		-1	-1.5	14	14.8	-6.6	16.8	20.2	10	14.4	-2.4	-15.6
		5.3	-30.6	-24.2	0.1	-10.3	-23	-24.7	-17.1	-17	-11.2	-23.9
RUN/POINT 41/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1535.3	36	-90.3	216	0	0	-680	649.6	-186.4	-89.1	18.4	12.9
RMS	384.9	-6.1	-7.3	46.6	0	0	109.8	-197.8	10.3	-40.6	0.3	-2
1/2 P-P	840.7	11.5	0.4	0.7	0	0	53.1	29.9	-3.1	-3.8	0	-0.2
HARMONIC		3.2	11.7	4.7	0	0	15.3	6.5	11	2.9	-0.2	0
		175.6	-78.9	-4.7	0	0	-31.5	-64.1	5.4	2	-0.1	0.1
		13	-32.1	-2.4	0	0	8.9	-11.3	-1.4	1.9	-0.1	-0.1
		-12	-10.4	1.2	0	0	7.2	22.9	0.1	1.8	-0.2	0.1
		9.3	7	1.7	0	0	-20.9	-11.5	0.6	2.7	-0.3	0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
41/13						
MEAN	-3562.3	-1846.2	-459.1	0	172.6	-202.5
RMS	251.8	148.8	92.3	0	171.7	323.3
1/2 P-P	493.3	283.4	172.8	0	324.7	603.8
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	75.3	-13	-38.4	64.1	0	-178.4
2nd	149.4	-270	-152.3	34.8	0	228
3rd	-136.7	45	19.7	-2.1	0	-127.5
4th	-1.3	-16.9	-9	5.6	0	61
5th	-46	11.2	-14.4	3	0	-11.6
6th	3.9	-11.6	3.7	-5.4	0	10.2
7th	4.8	-3	4.8	-3	0	-8.4
8th	-0.6	-23.9	2.8	5.1	0	14.2
						-0.1
						35.5
						10.5
						-2
						2.8
						-44.7
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
41/13						
MEAN	-330	-381.6	-176.8	-7779.5	-2542.2	-386.4
RMS	332.3	265.5	141.9	495.4	254.8	145
1/2 P-P	663.3	577.1	384.7	915.2	617.6	236
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	216.7	-307.9	147.4	-232.2	-342.4	-529.1
2nd	-109.6	196.7	-62.6	155.6	-84.3	227.4
3rd	70.3	69.2	42.8	96.4	23.5	-46.5
4th	-5.8	-3.4	-18.6	-17.3	40.6	1
5th	-121.7	7	-129.3	5.1	-85.6	-11.2
6th	11.5	-23.7	9.9	-20.8	19.8	73.7
7th	10.3	-2.9	7	-4.8	-5.4	0.9
8th	0.3	12.2	3.6	58.5	-0.4	59.7
						-26.7
						-15.6
						5.8
						-12.1
						0.8
						-16.4
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
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						-12.1
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						-1.1
						1.8
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						16.3
						-183.7
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						-183.7
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						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
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						-12.1
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						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
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						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
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						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
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						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7
						-40.8
						4.9
						0.7
						3.3
						-4.2
						32.8
						-12.1
						0.8
						-2
						-1.1
						1.8
						0.9
						16.3
						-183.7

RUN/POINT 40/33	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3069.7		-1126.6		3233.7		-1852.9		900.4		348	
RMS	667.2		7374.3		607.1		6998		5924.9		3891.4	
1/2 P-P	1324.6		11017.6		1129.1		10513.2		8956.3		6746.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	337.4	441	-6296.3	-8208	-328.6	214.4	7037.8	-6831.8	6042.1	-5696.2	3574.9	-3811.2
2nd	437	30.8	-998.9	-623.4	-486.8	-57.3	1055.7	568.9	853.9	490.2	579.3	207.6
3rd	-314.1	-467.8	3.1	-376.2	-442.9	313.8	-295.9	35.5	-190.8	70.3	313.2	235.7
4th	82.1	53.6	-18.3	196.4	100.8	53.8	75.8	-71.4	129.2	-308.3	290	-1442.2
5th	224.1	-48.4	-116	116.9	17.1	167.1	-145.6	-130.2	-64.5	-32.2	203.9	416.9
6th	-35	9.2	-4.7	17.4	36.5	2.8	-25.2	-44.4	-18.4	-14.2	30	86.9
7th	11	16.5	-4.3	-16.1	13.9	-7	14	2.8	7.3	-3.7	-20.8	-34.7
8th	0.6	-85.7	-228.3	-268.1	3.2	-61.7	-239.9	-284.2	-192.8	-276.5	-98.1	-159.6
RUN/POINT 40/33	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1097.3		-466.9		0		-3118.5		-574.3		-47.4	
RMS	3053.8		223.6		0		7447.4		207.9		20.9	
1/2 P-P	5624.8		377.9		0		11235.8		352		38.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	2217.4	-2884.4	-224.7	182.6	0	0	6481.8	8199.4	-147.5	-233.5	-27.5	3.2
2nd	492.6	62	4.6	93.2	0	0	-1005.6	-625.2	23.7	-64.6	-4.1	-9.1
3rd	637.1	308.6	12.6	-41.9	0	0	-62	331.6	-30.5	0.5	-1.3	-0.8
4th	230.5	-2000.5	41.4	55.9	0	0	25	-7.7	39.6	44.9	0.1	-0.4
5th	386.8	626.3	-16.7	11.4	0	0	121.4	-58.8	-15.7	-17.8	0	0
6th	50.7	105.3	4.8	-2.8	0	0	-15	37.8	-3.6	2.5	0	0.1
7th	-58	-24.4	4.2	-3.1	0	0	13.5	-14.5	-6.7	-4.7	-0.1	0.1
8th	104	93.3	-4.8	10	0	0	-200	-289.1	-7.3	11.3	-0.1	-0.2

RUN/POINT 40/33	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	3160.3		2299.6		1226.2		0		745.4		361.4	
RMS	516.7		297.8		181.3		0		353.1		586.9	
1/2 P-P	912.7		504.8		419.1		0		779.1		1235.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-74.7	-197.4	-56.8	-138.9	49.3	-207.1	0	0	69.3	-347.6	39.6	-617.2
2nd	-449	-50.9	-261.2	-31.3	-93.9	17.3	0	0	-7.6	68.4	-111.2	98.8
3rd	406	-278.5	231.4	-155.5	16.5	-37.6	0	0	-205.5	94.3	-480.8	206.7
4th	86.2	54.8	48.2	15.8	10.6	-35.7	0	0	-56.2	-74.8	-61.3	-10.1
5th	20.3	-161.4	10.4	-62.9	-13.6	58.3	0	0	-43.9	210.7	17.3	-5.4
6th	33.2	-3.2	12.8	-4.2	-13.3	-7.9	0	0	-45.9	-3.5	36.2	17.4
7th	-15.8	5	1.4	0.1	25.1	-5	0	0	37.5	-4.9	-43.9	-0.9
8th	3.2	-54.1	-10.3	-19.1	-35.2	32.9	0	0	-38.5	81.6	80	-81.9
RUN/POINT 40/33	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-275.8		-812.7		-1077.6		-3361.2		-2184.4		-461.2	
RMS	714		782		572.5		7285.4		2694.5		212.6	
1/2 P-P	1490.1		1576.7		1262.7		10765.3		5196.1		365.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	11.3	-602	80.5	-459.8	-37	-165.6	-7371.6	7072.8	-1405.2	2139.2	217.1	-162.7
2nd	-479.7	30.3	-671.5	-17.7	-513.8	3.8	1101.8	491.3	484.4	-75.2	-6.2	82.5
3rd	-380.4	327.2	-368.9	295.3	-379.3	147.1	358.5	34.7	-649.7	-280.3	-0.8	47.4
4th	27.3	29.1	158.6	102.9	179.7	83	-78.7	133.9	820.7	-2467.5	53.4	59.3
5th	122.5	-382.8	88	-515.5	147	-317.7	85.1	119.6	-172.7	-492.9	24.6	-18.5
6th	75.1	1.1	43.1	-4	-56.4	-40	-4.2	-24.5	-11.7	71.4	2.1	-6
7th	-10.3	-14.2	21.4	9.3	-8.1	-10.1	1.9	-52.5	41.8	53.5	-2.8	2.7
8th	-42.4	25.8	-72.4	102.9	-13.4	144.5	-206.9	-292.7	233.1	300.4	-3.2	5.1

RUN/POINT 40/32	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1654.7	-2390.9		1747.8	-3006.3		-137.8				3	
RMS	675.6	5413.1		606.1	5323.7		4485.8				2916.4	
1/2 P-P	1413.9	8181.7		1276.9	8205		6926.3				4898.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	293	752.9	-3529	-6727.4	-672.2	196	6504.6	-3664.7	5517	-3022.7	3332.9	-2163.4
2nd	233.5	81.9	-574.5	-600.6	-243.7	-114.2	569.8	633.8	464.4	524	354.7	210.9
3rd	-263.9	-302.3	-51.5	-243.1	-286.5	245.5	-210.2	47.3	-132.8	53.8	213.6	94.4
4th	65.3	47.9	-10.3	74	80.7	43.9	59.9	-62.6	88.8	-193.7	196.6	-872.5
5th	155.7	-13.5	-119	77.2	-2	130.2	-114.7	-96.6	-53.7	-14.2	144.8	345.6
6th	-31.1	8.1	25.2	14.9	30.5	-5	-9.6	5.9	-5.7	16.5	21.1	56.9
7th	11.2	12.4	14.3	-5.7	8.6	-7.2	34.6	-11.3	26.1	-11.6	-10.5	-23.2
8th	-8.2	-65.3	-247.9	-169.9	-5.9	-41.4	-283.2	-195.6	-236.9	-195.1	-119.6	-110.9
RUN/POINT 40/32	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1199.8	-491.5		0	-4421		-580.3				-72	
RMS	2200.7	185.9		0	5358.9		177.9				11.9	
1/2 P-P	4104	322.1		0	8201.1		314.9				24.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2134	-1723.3	-181.2	172.4	0	0	3464.6	6680.5	-147.4	-188.8	-1.6	14.4
2nd	335.4	48.4	-40	56.7	0	0	-493.4	-605.1	58.4	-33.2	3.2	-7.2
3rd	423.9	115	12.7	-8.1	0	0	28.7	225.5	-4.1	-8.9	-0.5	0.1
4th	163.4	-1196.5	11.7	32.4	0	0	7.5	-42.9	15.6	25.4	-0.1	-0.2
5th	285	503.7	-5.9	11.8	0	0	125.9	-65.6	-13.9	-4.8	0.2	-0.1
6th	27.9	49.5	4	-0.5	0	0	16.9	-5.5	-4.4	0.3	0.1	-0.1
7th	-50	-7.2	1.1	-1.3	0	0	26.8	-22.6	-3.1	-0.2	-0.1	0.2
8th	114.4	59	-0.6	7.7	0	0	-231.1	-203.8	-2.9	10.1	0	0.1

RUN/POINT 40/32	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1720.8	-134	1402.4	-111.3	854.1	0	0	0	601.7	0	205.9	0
RMS	379.4	-197.3	221.2	-68	174.2	0	0	0	299.5	0	499.9	0
1/2 P-P	827.1	-226.5	472	-126.5	350.8	0	0	0	649.3	0	1032.5	0
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	278.2	-134	163.9	-111.3	133	-183.7	0	0	96.8	-319.5	93.5	-538.3
	-197.3	-121.7	-109	-68	-45.7	1.5	0	0	-31.6	66.1	-177.8	112.8
	253	-226.5	146.3	-126.5	12	-29.5	0	0	-132.1	82.3	-323.9	213.6
	65.8	41	37.4	13.6	7.3	-23.4	0	0	-43.1	-49.8	-51.6	-8
	11.8	-117.4	7.5	-44.5	-8.5	45.2	0	0	-28.8	161.2	18.9	3.2
	27.8	-5.2	12.4	-3.6	-9.7	-4.8	0	0	-38	2.1	26.9	15.7
	-8.9	7.2	3.1	0.1	19	-8.9	0	0	25.4	-11.1	-32.8	3.3
	-6.3	-36.1	-13.4	-11.4	-24.8	25.3	0	0	-22.2	58.6	56.4	-61.1
RUN/POINT 40/32	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-321.5	-503.4	-755.5	-366.7	-917.3	-31.1	-4784.3	3826.9	-1259.1	1323.6	173.1	-145.8
RMS	609.2	48	636.9	1.2	435.9	-376.2	5101.5	547.7	357	-87.2	52.1	50.7
1/2 P-P	1309	-243.9	1304.9	337.2	957.1	-264.7	7809.6	-11.3	-438.5	-101.7	-12.2	8.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	69	-503.4	-366.7	-917.3	-31.1	-4784.3	3826.9	-1259.1	1323.6	173.1	-145.8
	2nd	-437.7	48	1.2	-376.2	-376.2	5101.5	547.7	357	-87.2	52.1	50.7
	3rd	-243.9	352.1	337.2	-264.7	200.9	7809.6	-11.3	-438.5	-101.7	-12.2	8.9
	4th	3.7	40.2	100	102.2	86.7	7809.6	58.8	501.2	-1401.7	16.4	33.2
	5th	86	-296.9	-394	121.8	-237.3	7809.6	100.4	-177.8	-398.9	13.3	-19.6
	6th	65.8	-13.2	-19.2	-51	-36.1	7809.6	10.9	21.7	17.4	3.9	-1.6
	7th	-3.4	-6.4	-4.7	-10.6	-25.3	7809.6	-23.4	22.2	27.9	-0.9	0.9
	8th	-36	17.5	80.1	-9.2	109.8	7809.6	-204.8	261.8	197.3	0	6.3

C-6

RUN/POINT 40/31	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1022.4	-2933.7	-2933.7	1100.6	-3536.4	-621.1	-186.8					
RMS	400.8	4005.7	4005.7	365.2	4025.6	3402.9	2285.6					
1/2 P-P	888.6	6240.9	6240.9	795.6	6434.1	5444	4077.1					
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	216.4	319.6	-2974.4	-4760.5	-271	175.1	4721.7	-3077.1	4025	-2548.4	2465.4	-1844.9
2nd	169.2	75.1	-483	-409.1	-175.7	-89.9	479.3	455.2	395.3	375	311	138.5
3rd	-223.5	-245.1	-51.1	-197.2	-232.5	214.7	-181.7	39.8	-120.2	41.2	139.8	68.2
4th	49.2	43	-8.6	59.2	63	41.3	51	-55.6	74	-178.9	163.4	-787.3
5th	124.1	-22.7	-99.5	84	20.5	112.1	-123.3	-123.1	-55.5	-44.9	167.4	306.4
6th	-38.3	2.4	33.2	11.5	34.1	4.7	-25.2	-6.4	-15.9	2.4	33.6	40.3
7th	8.7	6.9	-11.4	-2.9	3.3	-9.4	11	2.7	7.2	-3.9	-8.7	-19.5
8th	-13.3	-65.2	-255.6	-160.1	-10.5	-35.8	-282.6	-183.1	-236.2	-183.9	-119.5	-99.4
RUN/POINT 40/31	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1280	-490.3	-490.3	0	-4938.3	-573.1	-77.2					
RMS	1798.6	180.1	180.1	0	3909.5	172.5	10.3					
1/2 P-P	3478.9	306.3	306.3	0	6114.4	304.5	18.7					
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1589.9	-1478.6	-165.8	179.3	0	2929.6	4635.6	-154.3	-175.1	5.6	11.2	
2nd	290.2	10.5	-41.7	48.7	0	-399.8	-393.9	57.3	-27.4	3.6	-5.5	
3rd	302.1	85.8	16.9	-1.9	0	38.8	195.7	5.8	-12.6	0	0.4	
4th	135.3	-1080.1	3.5	24.6	0	11.9	-39.5	8.2	20	-0.1	-0.1	
5th	315.4	470.1	-0.7	11.8	0	134.5	-61.7	-13.7	-0.5	0.1	0.2	
6th	55.1	40.7	4.3	0.4	0	15.4	27.9	-3.6	1.7	0	0.2	
7th	-25.9	-11.5	1.7	-0.2	0	0.5	-34.4	-1.5	0	-0.1	0.1	
8th	114.6	61.1	-0.3	5.8	0	-238.1	-188.8	-1.4	8.2	0	0	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
28/33												
MEAN	-987	-5960.2	-928.7	-6371.6	-3143.9	0						
RMS	429.7	1454.2	440.4	1671.2	1432.7	0						
1/2 P-P	787.3	2683.4	768.1	2971.8	2425.6	0						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	102.1	-161.7	319.7	-1919	91.3	71.1	2218	377.2	1919.5	336.2	0	0
2nd	-74.5	543.9	-34.1	-575.3	93	-583.1	12.1	632.4	22.1	479.1	0	0
3rd	63.5	41.4	-100.3	-25.6	60	-49.2	-27.2	112.8	-21	76	0	0
4th	24.4	21.4	7	9.8	19.3	10.4	2.3	-0.1	31.3	-12.2	0	0
5th	-4.5	-95.4	-30.7	118.8	98.7	-28	-123.2	-0.9	-51.6	5.3	0	0
6th	-10.1	14.2	18.7	-10.5	-2.8	-16.3	-10.6	14.9	-9	5.6	0	0
7th	0.9	-10.2	-41.8	6.7	-3	1.2	-14.3	8.2	-16.9	-0.4	0	0
8th	26.8	-97.8	-77.3	-156.9	26.2	-58.8	-72.7	-173	-52.4	-150.8	0	0
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
28/33												
MEAN	-1877	-425.9	-800.2	-7803					-493.2	-46		
RMS	910.6	245.5	494.9	1414.7					221.1	25.9		
1/2 P-P	1857.8	373.7	938.8	2488.9					350.3	45.1		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1147.5	-270.9	-167.1	285.3	45.2	318.6	-532.2	1812.8	-247.1	-167.4	24.4	-22.4
2nd	156.3	-38	-55.2	74.9	-133.9	573.7	62.4	-555.3	60.8	-57.8	-9.7	6.5
3rd	-9.2	-36.8	-31.2	17.3	-78.4	-95.5	121.3	59	10.2	18.7	6.9	-1
4th	195.7	-131	-14.4	23.8	15.7	13.3	-13.6	-13.9	-11.9	23.4	-3.4	3.4
5th	354.7	75.1	9.2	0.3	40	91.3	27.8	-131.7	-2.3	3.1	-4.3	-1
6th	10.7	-44.2	6.3	-9.4	4	17.1	5.6	-0.9	-7.1	10.2	0.7	-1
7th	-2.1	-31	-8	0.6	4.3	5.8	-0.9	-21	-1.2	4.8	0.2	0.9
8th	33.8	80.8	0.1	6.1	5.8	-94.8	-55.4	-159.2	-1.9	11.4	-2.4	0.7

C-7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-157.7		208.3		330.2		355.4		331.6		-171.8	
RMS	634.9		371.9		189.5		324.7		373.3		645.2	
1/2 P-P	1228.8		698.5		403		659.6		722.4		1193.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-733.2	-15.7	-434.4	-77.4	-82.2	-201.2	118.9	-350.8	172.5	-403.4	405.2	-664.8
2nd	-8.7	-491.1	2.8	-275.5	-18.8	-38.7	-36.3	120.8	-43.7	171.5	-226.8	337.4
3rd	-44.9	-8.3	-20.5	-13.1	4.1	-20.7	24.7	-28	31.2	-19.8	3.2	130.1
4th	23.9	10.5	19.7	6.3	10.2	0.7	1.3	-10.4	-4.3	-12.6	-43.3	3
5th	-85.4	-4.1	-28.8	-0.2	41.3	8.9	107.5	10.5	127.9	11.3	-44.2	4.4
6th	3.9	-21.5	3.8	-8.3	1.1	7.4	1.1	17.1	1.6	19.4	-24.2	7.1
7th	-1.4	2.1	3.4	2.6	10.3	1.9	15.5	0.9	15.7	1.5	-25.1	5
8th	30.7	-86	-5.4	-13.5	-64.6	82.4	-100.6	152.1	-84.3	152.8	160.5	-139.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-555.7		-774.8		-702.3		-8600		-2686		-448.3	
RMS	622.3		543.9		425.4		1621.5		945.2		229.8	
1/2 P-P	1129.6		1203.8		1229.5		2779		2120.6		368.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	391.5	-604.3	222.3	-441.1	-59.1	-118.3	-2052.3	749.3	-952.8	565.8	175.2	-251.2
2nd	-226.9	289.8	-211.5	222.7	-151.9	92	271.6	513.7	278.9	-120	-66.1	65.7
3rd	-48.9	226.4	-87	257.1	-77.2	200.8	88.4	-109.8	-5.2	22.3	38.4	2.6
4th	-13.1	83.5	-40.7	141	-76.2	155.8	-40.3	-2.3	331.1	-297.8	-10.5	26.5
5th	-177.8	-41.8	-190.3	-9.2	-139.8	40	140.4	37	-300.1	-192.6	-6.4	-4.1
6th	45.8	-67.9	74.6	-79.2	72.9	-37.2	15.9	8.9	-9.5	-40.5	10.2	-12.8
7th	23.6	-31	6.4	-38.2	-14	-26.1	-40.3	-19.1	35.3	11.8	7.6	-0.4
8th	-37.6	20.2	-172.8	241	-224.1	287.1	-84.3	-239.8	98.8	198.4	-2.1	9.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
28/34										
MEAN	-190.1	-6109.9	-118.9	-6492	-3214.6	-1519.7				
RMS	425.7	2004.6	428.6	2225.5	1919.4	1472.1				
1/2 P-P	803.7	3426.3	799.1	3779.4	3207.4	2732.3				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	190.6	-242.2	-2667.8	210.6	148.9	2978.8	-601.7	2590	-482.8	1898.7
2nd	45.5	478.7	-598.5	-48.5	-520.4	294.2	662	255.1	512.8	294.6
3rd	-28.3	-1.3	-106.5	67.2	32.5	-59.9	115.3	-39.8	81.8	44.8
4th	40.6	20.6	20.3	30.4	4.4	18.8	-24.8	48	-52	143.5
5th	-6.4	-100.2	133.4	90.2	-32.2	-132.2	16.5	-55.3	19.8	248.8
6th	-12.2	21.2	-6	-1.7	-19.1	-1.9	10.7	-4.5	4	-12.2
7th	-2.4	-2.2	31.1	2.7	3.4	-4.9	23.6	-10.1	10.1	-14.8
8th	40.9	-111	-221.7	42.5	-79.5	-91.6	-249.2	-63.3	-218.2	-14.6
										-87.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
28/34										
MEAN	-1955.9	-438.1	-19.6	-7968.9	-512.3	-40.3				
RMS	1221	253.7	476.8	1939	229.8	26.9				
1/2 P-P	2709.2	392.7	937.3	3334.4	377.5	47.7				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	1438.9	-661.4	-187.4	285.6	-57	403.2	2605.3	-246.5	-186	24.7
2nd	286.9	-48.9	-56.2	75.8	-4.4	504.2	-576.5	69.3	-57	-11.6
3rd	62.7	-30.1	-38.3	8	6	-49.4	93.2	3.5	24.7	7.6
4th	179	-286.5	-9.5	29.5	33.5	9.2	-12.8	-9.9	28	-2.7
5th	389.3	88.8	5.6	0.3	34.9	96.2	-153.3	-2.6	-1.1	-3.4
6th	-0.3	-38.2	7.3	-9.5	0.1	18.6	-0.6	-7	10.4	0.7
7th	-8.6	-50.4	-8.2	-0.5	2.2	-1	-12.8	-2.5	3.9	0.2
8th	43.4	115.8	-1.4	8.4	10.2	-114.8	-231.6	-3.3	14	-2.3
										1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1096.8		987.4		653.8		501.5		452.6		-33.1	
RMS	687.2		402.6		176		316.8		374.2		695.4	
1/2 P-P	1365.4		750.3		399.1		693		775.4		1316.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-812.7	150.4	-489.3	32.2	-90.6	-170.3	121.8	-352.5	178	-415.3	422.7	-708.4
2nd	-146.8	-412.4	-83.2	-230.8	-58.1	-23.3	-55.8	119.8	-61.2	164.7	-297	286.7
3rd	108.8	-154.5	66.8	-91	10.2	-29.3	-26.6	9.7	-42.2	34.7	-155.2	240.5
4th	55.4	9.9	36.1	2	7.6	-13.4	-18.7	-28.9	-29	-29.8	-68.7	-6.4
5th	-60.3	-67.4	-22.5	-23.9	20	31.3	60.3	73.9	75.8	88.6	-37.5	4.7
6th	26.1	-17.2	13.1	-5.4	-4.2	7.1	-17.6	13.6	-20.1	14.9	-20.5	14.3
7th	-5.2	3.5	0.1	4.4	6.8	4.9	14.4	4.3	14.8	6.5	-20.1	0.5
8th	34.4	-59.2	-5.7	-12.6	-71.2	49.8	-112.7	96.4	-97.3	100.5	164	-73.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-526.3		-843.7		-880.8		-8116.3		-2716.4		-470.8	
RMS	745.9		681		517.6		3252.9		1752.2		254.3	
1/2 P-P	1436.5		1501.9		1597.7		5379		3904.3		430.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	434	-667.2	240.7	-515	-95	-170.4	-3586.2	2702.2	-1360	1128.8	227.3	-248.9
2nd	-406.9	231	-415.6	188.1	-305.8	96.2	595	500.9	495.6	-113.5	-66.2	78.6
3rd	-209.8	344.2	-261.5	357.5	-217	266.4	203.9	-114.6	-304.6	-29.8	48.7	17.8
4th	16.9	151.3	7.4	225.5	-57.2	212.9	-67.1	11.3	633.2	-1293	-16.1	29.5
5th	-75.4	-182.2	-62.1	-157.9	-34.5	-46.5	106.9	130.4	-201.6	-494.8	13.8	-13.9
6th	81.9	-60.7	104.6	-94.4	90.7	-46.5	-21.1	-5.7	9.4	-15.3	13.3	-9
7th	22.1	-23.7	-12.2	-38.2	-47.6	-32.6	6.4	-20.5	2.6	9.3	0.6	5.7
8th	-45.5	-4	-205.2	181.9	-252.4	234.5	-28.5	-311.6	57.3	270.9	-2	9.9

RUN/POINT 28/35	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1073.5	-5623.4	-2249.5	-4330.7	311.9	-47.1	4538.1	-2477.1	3949.9	-2071.3	2723	-1686.8
RMS	413.7	3524.5	-567.3	-598.3	-168.8	-427.6	593.2	626.4	516.7	488.9	516.6	99.8
1/2 P-P	925.3	5762.9	-173.9	-196.8	-130.8	192.6	-187.9	167.5	-120.8	134.6	165	84.9
HARMONIC												
1st	32.1	-249.4	5	116.2	72.6	10.6	44.9	-67.1	89.7	-225.6	249.1	-974
2nd	155.4	397.3	-100.8	78.1	66	28.8	-103.3	-78	-35.3	-7.7	206.1	289.1
3rd	-180	-156.8	30.6	23.9	17.9	-8.4	-36.5	-21.8	-33	-14.2	-40.9	23
4th	74.9	23.7	1.3	44.5	7.5	0.5	45.1	31	32.6	9.3	-10.9	-78.3
5th	46.8	-68.8	-80	-297.1	63.8	-63	-56.1	-330.7	-25	-289	24.3	-127.2
6th	-28.7	9.6										
7th	1.5	-2.7										
8th	60.2	-82.8										
RUN/POINT 28/35	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2003.5	-1450.4	-240.2	282.8	100.9	405.2	2197.8	4277.2	-238.5	-236	23	-10
RMS	2095.5	-96	-58.5	96.1	93.3	418.2	-498.4	-579.8	83.2	-71.4	-11.8	11.4
1/2 P-P	4655.1	78.3	-53.2	-15	160.9	103.4	169	208.9	-10.7	44.6	8.9	1.4
HARMONIC												
1st	1986.8	-1341.2	-17.5	40.2	78.6	11.6	25.7	6.4	-20.8	36.6	-3.6	2.2
2nd	502.2	434.3	-15.2	5.1	-7.5	74	88.2	-102	-3.8	-15.3	-2	0.3
3rd	295.2	27.1	10.1	-5.4	-19.3	13	12.8	39	-11.5	6.4	1.1	-0.3
4th	231.9	-91.1	-4	-7.4	-1.6	-7	40.9	-28.2	-4.3	2.4	0.5	0.7
5th	326.2	133.4	-4.6	13.9	35.9	-94.6	-15.4	-305.4	-8.1	16.6	-2.3	0
6th	-5.7											
7th	-45.7											
8th	42.9											

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1558.4		1274.3		771.4		555.3		498.3		22.6	
RMS	797.7		469.3		187.1		318.8		378.9		734.1	
1/2 P-P	1571.2		900.3		440.8		722		833.7		1484.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-946	301.1	-573.7	127.6	-123.5	-134.8	109	-343	165.5	-413	407.2	-733
2nd	-158.2	-378.1	-93.1	-211.3	-65.1	-16	-65.7	121.1	-73.5	165.9	-331.1	281.8
3rd	150.3	-243.4	91.1	-138.5	11.8	-36.1	-39.7	33.2	-58	69.9	-193.8	322.5
4th	43.7	32.4	28.5	10.9	3.9	-22.6	-16	-49.3	-22.6	-51.3	-58.3	-9.1
5th	-71.8	-29.3	-26.8	-8.1	26.8	20.9	78.7	38.5	96	44.6	-36.6	4.7
6th	35.3	-9.2	16	-2.9	-8.8	2.9	-26.8	4.4	-31.4	5	-13.3	18.9
7th	-1.2	-0.2	1.7	3.9	7.1	9.5	12.7	13.2	12.2	15.1	-8.7	-11.7
8th	47	-63.1	-0.4	-15.5	-74.7	46	-123.2	93.9	-110.9	99.7	186.3	-68.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-519.2		-876.3		-942		-7763.4		-2725.6		-487.5	
RMS	809.9		759.2		616.7		3776		2072.4		250.2	
1/2 P-P	1536.2		1647.8		1973.5		5874.9		4315.5		420.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	424.4	-693.7	230.4	-543.4	-101.3	-195.7	-3837.7	3577.1	-1400	1411.3	250.2	-224.1
2nd	-466.3	233.8	-470.5	201.2	-336.8	110.5	652.8	429.9	590	-172.2	-33.3	72.9
3rd	-241.2	440.2	-294.2	448.1	-237.5	326.4	250.1	-149.8	-501.8	-15.6	41.4	-25.8
4th	32.8	211.2	37.7	304.3	-21.7	272.2	-60.2	28.3	268.5	-1870	-47.3	1.5
5th	-107.2	-110.7	-85.6	-71	-32.8	5.9	125	90.3	-281.7	-413.3	-6.4	-13
6th	91.2	-49.9	99.7	-95.2	80.4	-58.9	-10	-15.9	2	0.8	4.8	1.1
7th	21.4	-23.2	-24.7	-29.6	-68	-31.2	-33.8	-15.9	14.8	2.4	5.5	8.4
8th	-53.9	-7.3	-240.4	191.3	-299.1	245.3	-47.5	-316.9	64.6	287.9	-0.9	10.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1574.9		-5326.7		1679.1		-5706		-2470		0	
RMS	474.9		4071.6		551.9		4182.3		3615.7		0	
1/2 P-P	1081.3		6465.4		1230.4		6592.7		5700.3		0	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Pitch Link, lb	
1st	-97.2	-320.8	-3003.3	-4800.2	438.9	-214.8	4805	-3277.2	4199.2	-2765	0	0
2nd	151.7	386.5	-593.9	-581.7	-186.2	-419.1	627	627.2	549.1	485.8	0	0
3rd	-275.7	-209.7	-170.9	-248.4	-178.9	298.9	-229.1	187.7	-139.5	157.7	0	0
4th	58.1	34.8	97.3	178.1	51.7	16.9	62.9	-125.8	46.6	-321.8	0	0
5th	23.2	-88.1	-63.2	103.2	83.3	11.9	-133.4	-54.1	-39.8	3.5	0	0
6th	-35.4	5.1	10.1	6.6	32.4	-4.1	-10.7	-11.8	-13.1	-6	0	0
7th	-3.7	-5.1	-45.3	42	2.5	5.5	-3.1	56.8	-7.4	22.8	0	0
8th	64.3	-73.8	-80.2	-317.8	72.3	-51.3	-52.2	-337	-18.6	-296.3	0	0
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-2004		-469.8		1723.4		-7252.1		-564.4		-36.6	
RMS	2399.9		280.6		542.2		4012.7		257.8		21	
1/2 P-P	4866.6		432.6		1165.8		6373.4		414.8		43	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2061.4	-1813.8	-264	265.7	217.3	476.5	2983.8	4721.7	-223.8	-256.6	19.4	2.3
2nd	587.5	-144.8	-38.4	97.9	109.2	412.8	-561.9	-589.9	71.6	-76.8	-7.4	11.1
3rd	454.7	56.1	-50.7	14.5	267.5	142.5	165.3	255.3	8.4	51.2	9.4	-6.3
4th	-247.1	-1689.7	-38.6	23	59.1	10.8	89.6	-31.1	-36	27.4	-8.7	-4.3
5th	450.6	377.2	-0.3	8.7	17.6	92.7	70.5	-127.4	-8.8	-6.2	-5.2	0.6
6th	-16.6	24.1	6.1	2.4	-28.2	4.6	13.4	33.7	-2.6	3	-1	1.9
7th	1.8	-114.7	-5.7	-10.4	1.3	-2.8	-3.9	-3.3	-7.4	1.4	0.5	1.1
8th	52.7	129.6	-5.8	12.4	43.4	-82.2	-22.2	-309.3	-7.6	15.4	-0.4	-1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
22/16												
MEAN	-546.6	-3873.7	-508	-4445.8	-1517.1	-596.6						
RMS	485	1593.1	509	1782.7	1532.3	1210						
1/2 P-P	1019.1	2900.7	1023.2	3472.2	2944.4	2415.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-37.7	-339.3	-1923.4	257.1	-108.3	-728	-617.9	-747.8				
2nd	159.9	531.4	-563.7	-162.2	-605.2	686.8	529.8	167.8				
3rd	-89.8	-19.4	-4.4	-7.7	90.1	98.1	66.1	-57.4				
4th	14.2	14.7	21.9	17	-9.1	-28.7	29	-403				
5th	-12.1	42.8	-29.8	-46.1	-55	20.1	13.6	-54.2				
6th	-14.2	10.2	15.4	4.7	-5.5	-12.7	1.7	19.5				
7th	-9.6	-13.4	-9.3	-14.9	17.5	-2.5	27.5	-28.2				
8th	9.4	-40.3	-51.8	16.4	-28	-64	-135.6	-27.2				
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
22/16												
MEAN	-1549.1	-471.4	0	-5719.9	0	-538.9	-87.8					
RMS	1055.3	269.8	0	1362.4	0	247.1	28.5					
1/2 P-P	2247.1	434.5	0	2728.7	0	403	53.6					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1066.8	-776.1	-199.1	295.4	0	590.7	1641.3	-203.9	24.5	-24.6		
2nd	206.4	-19.7	-48	123	0	-260.5	-579.7	-96.7	-15.4	11.4		
3rd	41.1	-94.2	15.6	19.1	0	91	35.9	-19.1	-1.6	-3.6		
4th	-106.7	-524.2	3.3	15.5	0	-10.3	8.1	13.3	-0.9	3.2		
5th	-52.1	-52.8	-7.3	2.1	0	-35.8	40	-9.5	-0.3	1.5		
6th	-18.8	17.3	2	2.6	0	-15.7	21.7	-1.4	0	0.2		
7th	-16	-6.4	1.1	-0.2	0	34.6	-2.6	-1.3	-0.1	-0.2		
8th	66	25.4	-2.2	2.6	0	-136	-72.8	4.4	0	-1.4		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3699.7		-1957.7		-535		97.9		98.7		-301.3	
RMS	739.9		424.4		143.1		237.9		308.2		585.8	
1/2 P-P	1438.2		790.7		293		471.7		601.5		1080.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-674.7	66.5	-392.7	-21.2	-92.1	-135.5	87.6	-242.5	146	-292.7	385	-523.1
2nd	96.3	-702.6	77.7	-402.1	38	-82.1	24.5	114.6	17.5	183.6	-68.3	422.6
3rd	-245.3	210.1	-137.1	109.5	-9.3	7.4	86.6	-64	126	-86.8	264.2	-67.9
4th	-82.4	-49.5	-39	-26.1	5.7	8.1	40.2	31.7	51.6	40.2	18.7	47.4
5th	-9.4	82.4	2.1	31.8	22.8	-30.3	37.6	-91.2	37.1	-109.2	-34.2	8.8
6th	-10	-11.1	-0.7	-3.8	12.1	5.4	20.4	10.8	21.8	10.8	-21.1	-3.1
7th	6.2	-13	4.1	-3.7	-0.4	8.2	-5.8	15.8	-7.8	17.6	0.1	-9
8th	-19	-33.8	-1.3	-6.1	17.7	32.5	29.8	62.2	27.7	60.3	-15.5	-82.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-390.2		-397.9		-151.1		-7919		-2518.5		-394.1	
RMS	550.4		449.5		266.9		838.1		361		234.6	
1/2 P-P	1134		974.7		700.2		1539.1		880.1		362.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	291.3	-509.7	175.3	-369.5	28.4	-91.5	540.6	-899.2	-196	53.3	108.3	-295.2
2nd	54.1	384.5	89.2	264.6	67.7	62.6	-59.1	469.3	38.4	-114.3	8.9	99.6
3rd	211.3	64.9	217	140.7	188	121.3	-5.8	-96	80.6	80.9	19.5	-12.5
4th	-91.5	-43.2	-171	-28.8	-145.2	33.2	51.6	46.3	-219.2	-178.3	7.9	19
5th	-60.3	193.6	-55.1	196.9	-73.6	126.4	7.4	-125.8	-56.3	247.4	-0.8	3.8
6th	-16.4	-38.5	18.5	-30.2	41.3	-38.7	25.6	34.5	-30.6	-55.9	1.5	-3.7
7th	24.6	-24.2	9	-3.1	17.7	28	8.7	-20.7	-9.2	12.4	4.1	-0.3
8th	19	22.8	55.3	85.5	27.9	107.4	-57.5	-8.8	57.2	3.6	2.3	3.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
34/23												
MEAN	-3850.7	-5535	-3827.1	-6071.2	-3030	-1121.4						
RMS	573.4	666.4	585.9	840.8	695.5	422.5						
1/2 P-P	1019.5	1441.9	1129	1532	1223	946.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	143.2	-180.7	-36.5	-21	77.2	363.7	936.3	310.2	805	375.3	316.5	
2nd	-46	696.4	-488.8	68.6	-734.9	-47.4	563.4	-35.8	420.3	8.7	151.9	
3rd	224.1	204.7	51.7	237.5	-218.7	36.8	118.3	31	74.6	-18.4	-35.2	
4th	-67.5	-45.9	61.2	-70.9	-62.4	28.2	5.3	-3.7	-7.8	-147.1	-103.7	
5th	-75.6	-14.8	9	7.2	-103.4	21.9	134.2	16.2	71.1	50.3	-180.7	
6th	3	2.6	-16.6	-16.9	-0.7	4.1	4.7	4.8	-0.4	-9.3	-14.4	
7th	-11	-12.3	-21.5	-5.3	12.2	4	-31.1	1.4	-28.1	-12.6	-15.7	
8th	-31.4	-37.5	-14.8	-21.8	-15.8	-74.1	-19.2	-56.1	-19.7	-36.6	-6.5	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
34/23												
MEAN	-1615.1	-395.5	-3587.5	-7184.4	-441.7	-70.6						
RMS	419.4	270.1	663	826.9	241.4	29.7						
1/2 P-P	995.8	406.5	1289.4	1479.4	372.8	49.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	371.1	94.8	-120.7	60.7	410.6	-1004	-177	-301.1	-121.5	10.2	-38.9	
2nd	30.9	0.7	15.1	-103.3	724.8	101.3	-491.4	-11.3	-99.7	-0.3	8.8	
3rd	-51.1	-80.1	-15.7	-248.9	-275.9	114.7	-1.3	12.7	10.3	5.7	-1.2	
4th	-207.9	-102.3	14.7	-81.4	-55.2	31.3	2.2	18.7	17.5	0.3	4.2	
5th	43.3	-321.6	1.2	104.2	-14.4	-124.8	-5.5	0.5	-1.1	-1.3	0.2	
6th	2.7	-19.6	2.2	16.1	9.7	-20.3	4.7	-0.9	3.8	0.1	-0.3	
7th	-8.2	25.3	-4.6	11.1	6.8	7.9	-31.7	0.9	4.8	-1	-0.4	
8th	33.9	14.3	3.5	-42.9	-20.7	-59.5	-12.2	5	5.3	-0.9	-0.5	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2242.1		-1051.9		-162.4		253		212.9		-229	
RMS	686.1		398.7		163.2		256		323.5		598.8	
1/2 P-P	1487.4		830.8		348.4		471.9		570.8		1052.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-636	-50.6	-370.7	-98.6	-75.7	-191.7	94.6	-297.2	151.6	-353.2	388.1	-604.7
2nd	-168.7	-653.5	-81.4	-374.9	-21.3	-69.4	14.9	119	19.6	184	-69.8	394.4
3rd	-173.6	141.2	-96.5	71.1	-6.4	-2.7	62.9	-56.4	91.4	-73	184	-27.8
4th	-44.8	-28.6	-18.5	-14.2	7.3	4.3	23.6	16	27.9	21.2	-6.4	36.5
5th	25.6	43	15	15.5	6	-21.2	-7.5	-60.1	-16.7	-71.1	-34.1	19.2
6th	-16.8	-14	-4	-5.5	11.4	6.3	20.4	13.5	23.3	13.4	-23.4	-2.1
7th	-1.2	-17.1	0	-4.9	-1	11.8	-4.6	22.1	-6.2	23.2	-0.2	-15.8
8th	-16.4	-21.9	-2.9	-1.4	10.8	26.1	17.6	46.5	17.4	43.4	-13.1	-54.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-467.7		-559.6		-389.5		-7177.3		-2435.8		-450	
RMS	556.9		430.1		232.8		558.3		463.2		238.7	
1/2 P-P	992.6		827		581.7		1354.4		1073.3		376.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	340.4	-573	201.4	-419.1	-3.1	-105	-241.6	-279.2	-435.6	273.6	145.3	-285.7
2nd	-51.6	340.6	-44.5	237.6	-49.4	58.3	260.3	544.4	111.7	-101.9	-8.8	103.9
3rd	148.4	95.5	149.2	149.7	133.9	116.5	-10.4	-106.2	100.8	59.4	3.5	-3.2
4th	-63.5	24.3	-117.9	60.5	-114.2	99.9	30.9	28.9	11.1	-130.2	10.5	3.4
5th	44.2	104.5	67.2	100.1	20	68.6	-41.9	-70.4	87.7	141.9	0	0.3
6th	-8.6	-44.3	37.7	-53.5	68.7	-57.9	39.1	14	-39.6	-28.4	1.5	-3.2
7th	17.3	-24.3	3.9	3.8	10.3	29.1	-7	-13.7	12.5	12.5	1.8	-0.4
8th	18	10.3	35.5	64.9	5.4	92.1	-82.7	-25.2	88.5	11.2	0.6	1.9

RUN/POINT 34/24	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2372.3	-123.1	193	-962.5	-2321.3	210.6	-5394.3	370.3	-2382	335.9	-865	-44.8
RMS	549.4	625.7	285.7	-562	549.7	-665.2	1091.3	625.6	917.5	480.5	688	160.4
1/2 P-P	1074.1	116	-106.2	49.5	1037.1	-142.3	2123.8	116.4	1789.3	77.7	1421.2	-29.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	282.6	-123.1	193	-962.5	-2321.3	210.6	1279.4	370.3	1098.6	335.9	902.4	-44.8
	225.2	625.7	285.7	-562	-201	-665.2	271.2	625.6	211	480.5	158.4	160.4
	158.4	116	-106.2	49.5	153.6	-142.3	45.5	116.4	34.7	77.7	-25.4	-29.2
	-17.5	-22	42	25.4	-23	-33.1	18.8	-3.4	18.3	-12	5.9	-88.7
	-43.9	26.3	45.4	-48.1	-30.2	-73.9	64	85	31.7	47.2	-54.4	-124.3
	6.9	9.7	-8.9	-8.6	-13.1	-5.1	4.5	-1.6	2.4	-3.3	-20	-15.9
	-19.2	-8.6	-27.9	-9.1	-1.1	18.4	-28.9	-11.1	-25.5	-12.8	-15.3	-12.4
RUN/POINT 34/24	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1539.2	-198.9	-446.2	329.1	-2111.2	367.2	-6625.2	682	-506.5	-158.1	20.3	-39
RMS	602.6	2.8	271.5	-1.6	601.6	678	759	-563.3	243.5	-103.4	-8.6	10.1
1/2 P-P	1409.7	-67.7	419.9	-0.2	1234.7	-185.1	1573.5	-7.2	388	4	0.7	-0.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	733.8	-198.9	-446.2	329.1	-2111.2	367.2	-446.3	682	-286.9	-158.1	20.3	-39
	117.3	2.8	-1.6	116.9	157.9	678	-190.3	-563.3	10.9	-103.4	-8.6	10.1
	-68.6	-67.7	-0.2	16.4	-177.8	-185.1	139.5	-7.2	5.4	-4	0.7	-0.5
	0.7	-102.8	16.7	9.5	-34.9	-25.5	7.2	8.8	16.6	0.8	1.9	1.5
	-115.1	-205.5	2	0.6	68.4	-41.5	-74.5	41.1	-1.7	-0.3	-1.4	1.5
	-12.9	-28	3.9	-1.6	20.2	7.1	-11.6	15.7	-2	2.1	0	0
	13.3	7.1	-1.5	-0.6	16.3	4.5	-10.2	-15.1	0.3	2.1	-0.7	-0.8
	42.7	7.2	1.4	2.8	-26.2	-30	-86.2	-23.8	2.6	4.3	-1.1	-0.7

RUN/POINT 34/25	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1021.2		-295.9		150.9		392.2		326.9		-91.1	
RMS	550		324		166.7		268		329.6		588.9	
1/2 P-P	1065.7		607.9		318.6		462.7		545.4		1036.1	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-501.7	-92.6	-293.4	-123.9	-38.5	-213.2	104.8	-320.8	157.9	-377.7	370.4	-615.4
3rd	-104.4	-549.1	-44.9	-311.3	-17.7	-48.1	-3.3	116	-8.2	173.4	-165.1	329.7
4th	-135.8	-10.6	-72	-11.8	-5	-11.2	50.5	-13.8	75.9	-8	124	142.9
5th	-17.2	-24.6	-4.5	-13.3	4.7	1.5	6.9	8.9	8.5	13.5	-19.5	21.2
6th	7.2	55.3	8.5	21.6	15.3	-19.9	17	-64.4	13.1	-80.2	-39.8	16.7
7th	2.4	-8.7	3.4	-3.2	3.6	4.1	-0.1	7.8	0.2	7	-6.9	1.4
8th	5.9	-9.2	5	-3.7	1.8	3.7	-4.8	5.1	-8.1	4.6	-0.3	3.4
	-7.7	-31.5	-4.6	-4.6	-3.4	32.5	-4.2	60.1	-1.1	56.7	17.1	-62.3

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
34/25												
MEAN	-460.5		-654.4		-575		-6717.5		-2424.7		-483.1	
RMS	572.4		467.2		283.1		1220.3		750.1		236.1	
1/2 P-P	929.9		825.6		683.5		2598.1		1911		375.3	
HARMONIC												
1st	357.8	-555.8	210.2	-409.5	-28.1	-111.7	-1443.4	595.1	-719.9	514.5	170.3	-263.5
2nd	-188.1	262.4	-153.5	185.9	-93.3	49.6	337.7	540	211.4	-86	-48.3	101
3rd	93.5	283.4	76.8	323.7	71.7	242.7	40.2	-147.8	9.1	103.9	-4.3	-8
4th	-41.3	37.3	-85	72.4	-98	95.2	20.6	20.4	-240.6	-310	2.2	16.4
5th	13.1	116.9	47.7	139.1	29.2	103.6	11.8	-71.1	-48.7	116.5	2.1	2.9
6th	9.9	-31.4	42.7	-45.3	65.1	-41.3	21.3	7.3	-31.8	-18.1	2.4	-1
7th	17	-18.3	-8.1	-14	-12.1	-0.3	-8.5	-20.4	3.4	14.1	0	-0.7
8th	5.2	10.5	0.8	89.9	-29.8	110.4	-178.8	-75.4	178.9	57.9	-0.8	1.3

RUN/POINT 34/25	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-1147.3	-4177.7	-1084.1	-4746.8	-1785.5	-663.8					
RMS 1/2 P-P	475.1		1788.6	488.5	1970.2	1668.2	1239					
	1016.2		3332.3	993.2	3606.5	2983.1	2333					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	367.7	50.4	-671.8	-2312.6	-133.5	263	2609.5	-478.5	2230.3	-364.4	1594.8
	2nd	159.5	515.4	-355	-598.1	-141.7	-578.9	333.9	680.4	271.3	533.8	217.7
	3rd	-19.9	83.5	-129.1	-5.3	107.7	20.6	-8.4	147.2	5.9	105.1	31
	4th	3.6	-10.4	75.1	34.9	-4.4	-28.7	22.6	-3.3	-11.7	-36.5	-182
	5th	-42.7	10	49.2	2.6	-11.4	-78.4	8.1	79.8	2.6	43.8	17.3
	6th	-15.4	4.6	14.7	2.3	1	-1	-5.3	-3.1	-5.6	-2.8	-15
	7th	-7.1	-10.2	-11.9	-13.6	-8	5.8	-3.6	-9.8	-5.1	-12.8	-5
	8th	-16.9	-48.5	-183.1	-61	-14.6	-23	-194.1	-76.9	-158.9	-79.3	-84.6
RUN/POINT 34/25	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1497.1	-477.7	-903.8	-6062.4	-544.3	-63.6					
RMS 1/2 P-P	1009.2		266	472.2	1527.1	239.6	32.4					
	2007.4		420.3	910	2890.9	387.8	59.3					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	1189	-549.5	-181.6	305.6	-162.5	195.1	379.8	-263	-183.4	25.5	-33.2
	2nd	190.9	22.6	-39	112.7	86.5	572.2	-268.9	51.4	-92.7	-13.6	11.4
	3rd	28.7	-93.7	6.3	18.7	0.2	-156	155.6	16	-11.2	-0.6	-1.2
	4th	-280.3	-286.8	8.2	18.8	-11.5	-25.1	2.2	6.2	11.4	-0.2	2.9
	5th	11.7	-178.7	-1.9	1.6	81.5	-17.4	-80.4	-1.8	-3.5	-0.7	1.5
	6th	3.4	-6.5	2.1	0.7	2.1	9	-11.2	-1.5	1	-0.1	0.4
	7th	-0.1	2.6	0.5	0.8	7	7.2	-2.1	1.1	0.4	-0.8	-1.8
	8th	77.7	29.5	0.3	1.5	-31	-31.6	-171.1	1.3	3.6	-0.1	-1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
34/26						
MEAN	-359.2	112.9	318.2	464.5	383.5	-26.6
RMS	521.1	313.5	203	310.8	371.2	641.9
1/2 P-P	1004.6	629.7	405.9	632.7	698.6	1131.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-333.7	-193.8	10.2	-253.5	126.1	-356.4
2nd	-116.8	-587.4	-20.6	-55.3	-3.7	118.8
3rd	-40.7	-96.2	-0.8	-19.7	22.1	4.2
4th	-0.7	-7	7.1	-6.6	5.2	-10.2
5th	44.3	96.1	3.4	-39.8	-18	-115.8
6th	8.8	-3.1	0.5	0.1	-8.2	0.2
7th	8.4	-5.9	-0.2	0.8	-9.1	0.9
8th	10.3	-47.8	-34.8	40.8	-55.6	80
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
34/26						
MEAN	-458	-696.9	-662.1	-6363.3	-2410.3	-495.2
RMS	647.4	557.5	378	2154.4	1091.8	241.5
1/2 P-P	1156.7	1146.8	1180.4	3630.5	2555.4	407.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	372.1	-623.8	-45.2	-129	-2573.7	1360.5
2nd	-257.2	239	-133.2	27.4	403.4	698.2
3rd	12.5	317.8	15.4	244.2	72.3	-108.8
4th	-54.2	90	-107.8	135.4	26.1	25.2
5th	110.4	214.5	132.3	192.4	-21.3	-85.1
6th	23.8	-18.9	74.8	-29.9	26	-15.6
7th	17	-20.1	-27.7	-32.9	-13.2	4.4
8th	-14.4	12.7	-121.8	142	-221.4	-176.1
					232	157.5
						-2.6
						2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-488.9		-3834.5		-406.1		-4437.4		-1503.2		-598.2	
RMS	559.1		2712.4		558		2854.8		2413.2		1760.3	
1/2 P-P	1107.1		4492.6		1112.3		4669.2		3962.4		3375.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	458.7	252.8	-1355.9	-3456.5	-292.9	361.4	3704	-1288.1	3158.7	-1035.4	2156.4	-998.8
2nd	174.7	534.8	-431.5	-762.7	-159.3	-584.2	377.5	789.6	305.8	620.3	253.8	219.2
3rd	-104.2	-19.4	-107.3	-32.4	14.1	114.3	-52.5	88.1	-28.5	62.5	50.9	-46.8
4th	22.8	9.7	89.5	49.8	15.7	-2	33.2	-23.4	13.4	-94.8	-92.6	-485.1
5th	-71.7	50.1	69.7	-26.2	-42.8	-98.9	53.5	53	26.7	22.8	-47.6	-133.3
6th	-18.2	4.9	3.1	14.6	12.8	-2.6	6.6	-20.9	1.6	-17.2	-31.6	3.5
7th	-2.6	-11.7	-12.1	4.7	-6.9	3.6	-17.5	14.4	-18.1	1.7	-10.5	-31.9
8th	7.7	-58.1	-229.9	-149.6	6	-35.3	-244.3	-160.2	-197.6	-157.4	-98.9	-71.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1500.5		-490.9		-230.4		-5746.2		-561.9		-59.4	
RMS	1424.1		270.3		494.1		2464.7		244.9		34.4	
1/2 P-P	3070.3		436.7		1066.1		4101.2		400.8		62.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1547.1	-931.2	-198	299.1	-285.7	13.8	1130.3	3180.3	-256.3	-199.5	30	-31.8
2nd	231.6	27.9	-51.3	115.4	111.3	596.3	-309.1	-708.9	69	-90.7	-16.7	11.3
3rd	73.5	-86.4	13.4	23.7	66.2	-57.2	123.7	79.9	21.8	-18.5	-1.1	-3.2
4th	-184.2	-640.5	3.9	21.5	21.3	-8.7	5.3	-5.9	-0.6	15.5	-1.2	3.3
5th	-105.9	-188.6	-7.3	0.7	103.8	-56.5	-104.9	31.8	0.5	-9.2	0.3	1.9
6th	-26.7	3.4	1.4	0.1	7.1	8	-7.7	23	-2.5	0	0	0.2
7th	7.3	-21.6	-0.4	1.6	-7	10.9	-19.3	2.7	1.1	-0.2	-0.5	-1.5
8th	95.9	61.6	-1.1	3	-5.1	-54.2	-214.4	-165.5	-1.5	5.3	-0.3	-0.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	232.6		480		468.7		531.4		437.1		17.5	
RMS	537.2		312.3		175.3		294.8		361.8		662.8	
1/2 P-P	1064.2		622		362.2		573.5		629.4		1154.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-400.6	-1.8	-238.7	-68.1	-6.8	-212.5	118.2	-352.2	171	-424.4	378.5	-738.8
2nd	-225.6	-579.8	-116.8	-329.8	-45.4	-49.4	-4.6	124.9	-2.9	186.5	-165.7	352.7
3rd	-17.9	-82.2	-6.4	-49.9	-1.6	-19.3	12.7	-2.2	22.5	9.6	10.5	180
4th	7.7	-11.6	8.6	-9.4	4	-6.7	-5.5	-10.2	-9.8	-8.3	-32.6	5.5
5th	3.6	53.3	6.2	19.6	14.8	-23.1	17.9	-71.3	14.3	-89.4	-42	18.8
6th	18.9	-9.2	8.3	-3.1	-5.5	3	-23.2	6.2	-23.9	6	6.2	6
7th	8.7	-10	5.7	-4.3	-1.3	3.4	-11.9	4.4	-17.9	3.6	12.3	5.9
8th	-2.8	-26.5	-8.8	-6.1	-20	23	-29.7	44.5	-23.8	43	38.9	-34.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-479.5		-754		-747		-5969.1		-2363.8		-507.8	
RMS	664.1		541		332.1		2602.5		1215.7		254.1	
1/2 P-P	1166.2		1079.6		1047.5		4385.1		2905		421.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	393.5	-681	228.8	-511.3	-54.7	-149.8	-3061.1	1779.1	-1102.8	951.9	205.4	-259.7
2nd	-256.3	265.3	-238	188.2	-167.9	48.9	548.3	717.4	297.7	-75.3	-74.1	112.1
3rd	-11.5	300.1	-37.8	313.9	-17	220.5	80	-121.1	-89	90.8	-8.1	-16.3
4th	-6.1	90.1	-22.9	137.9	-55.3	136.3	8.3	35.6	-14.2	-737.6	4.5	27.4
5th	21	113	70.5	149.7	63.4	117.6	30	-45.5	-102.7	64.7	8.4	5.3
6th	42.7	-27.4	72.9	-54.7	91.1	-45.1	7.7	2.1	-14.8	-14.6	5.9	-3.3
7th	13.1	-16.5	-25.7	-16.3	-36.5	-14.2	16.1	-17.2	-13.9	13.5	0.2	-1.5
8th	-5.6	-3.3	-42.7	72	-77.1	90.1	-203.5	-141.3	214.3	120.4	-0.6	1.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.144	Blade 3, r/R=0.174	Blade 3, r/R=0.325	Blade 3, r/R=0.325	
34/27												
MEAN	105.8	-3487.2	205.4	-4154.2	-1230.1	-510.7						
RMS	502.3	3197.3	514.4	3230.4	2740.1	1976						
1/2 P-P	976.6	5170.4	1026.8	5166.4	4442.2	3640.8						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
2nd	257.4	199.2	-1703.1	-4047	-206	170.5	4106.7	-1704.9	3513.6	-1400	-1244.4	
3rd	281	534.7	-568.6	-814.2	-269.8	-590.1	481.9	834.8	384.9	657	233.5	
4th	-86.2	-37.5	-145.5	-45.8	-4	107	-79.2	116.4	-49.1	83.6	-38.9	
5th	32.1	11.4	68	59.1	25.7	-5	34.1	-28.5	12.4	-110.1	-551.4	
6th	-47.9	9.1	36.6	20.3	-8.9	-78.6	-1.2	39.3	0.9	17.9	-93.3	
7th	-27	6.4	-0.1	5.4	20.8	-5.7	3.3	3.6	-3.7	2	-0.2	
8th	-5.3	-14.8	7.6	-25.9	-11.2	5.9	2.1	5.8	-1.7	-4.7	-36.2	
	1.4	-37.9	-214	-109.6	-0.5	-26.9	-230.6	-111.1	-190.6	-114.5	-50.9	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
34/27	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1473.9		-504.8		0		-5480.1		-580.3		-56.2	
RMS	1578.8		281.4		0		2921.3		257.3		31.3	
1/2 P-P	3213.5		454.6		0		4838.4		430.3		61.1	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	1705.8	-1137.5	-215.7	299.4	0	0	1519.2	3717.8	-257.6	-218.5	27.7	-25
3rd	253.5	23.8	-57.3	130.4	0	0	-425.5	-745.6	80.6	-99.8	-18.3	13.3
4th	92.5	-83.9	10.8	30.1	0	0	142	90.2	26.7	-17	0.4	-3.5
5th	-214	-730.7	11.6	24	0	0	6.1	2.6	5.7	20.2	-0.3	4.2
6th	35.6	-134.5	-5.9	0.5	0	0	-73.8	-11.4	0.8	-9	0.1	2.4
7th	-33.1	-7.3	1.3	-1.1	0	0	-12.8	22.7	-3.5	1.9	0.3	0.4
8th	-19.2	-11.6	0	1.2	0	0	9.7	-14.2	0.2	-1.2	-0.9	-1.4
	86.2	45.6	-0.5	2.4	0	0	-200.5	-137.3	-1.1	4.6	-1.3	-1.5

RUN/POINT 34/28	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	729.3	-3030.3	844.1	-3854.4	-944.4	-422.6					
	RMS	464	3612.3	472.9	3628.1	3097.1	2267.2					
	1/2 P-P	1027.7	5859.4	1081.5	5912.7		4364.3					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	236	-118.7	-2805	-4114	123.8	148	-2840.9	3560.6	-2365.9	2413.6	-1871.5
	2nd	276.4	472.2	-684.8	-753.7	-284.5	-521	832.3	518.9	660.9	407.8	225.1
	3rd	-164	-94	-151.4	-101.8	-53.5	179.8	147.5	-59.2	111	138.7	-25
	4th	47	30.5	97.8	58.8	39.8	7.3	-48.4	10.6	-152.9	-158.3	-687.6
	5th	-13.3	33.4	-16.4	3.5	-25.9	-53.5	-26.6	2.5	-17.6	20	14.9
	6th	-32.7	10.6	-13.1	15	26.8	-10.8	-20.4	2.6	-11.9	-31.9	9.5
	7th	-5.1	-10.2	5	14.1	-15.6	9.6	48.5	2.7	29.8	-19.9	-36.3
	8th	16	-67.1	-238.7	-244	8.4	-41.2	-251.4	-185.3	-240.7	-89.2	-121.6
RUN/POINT 34/28	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1476.1	-513.9	0	0	-5127.1	-595.9	-50.6				
	RMS	1851.7	289.3	0	0	3359.4	266.4	25.8				
	1/2 P-P	3907.1	474.2	0	0	5395.7	449.8	53.4				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	1729.6	-1594.7	-236.8	297.2	0	2714.3	3761.3	-254.3	-240.1	19.9	-19.2
	2nd	349.3	8.4	-63.4	131.1	0	-557.3	-702.6	90.3	-97.4	-17.3	13.9
	3rd	215.4	-81.8	15.5	15.6	0	160.5	142	19.3	-21.6	-1	-4
	4th	-290.8	-911.4	7.7	27.8	0	4.2	-10.4	-0.1	24.4	-2	4.3
	5th	27.4	41	-11.3	0.9	0	-10.2	-3.3	-1.8	-12.5	1.1	2.1
	6th	-37.8	19.8	4.3	1.2	0	-2.5	31.4	-4	0	0.5	0.5
	7th	-28.8	-35.4	1.7	0.5	0	14.7	27.2	0.7	-3.3	-1.1	-2
	8th	96	94.2	-0.4	5.1	0	-194.7	-251.5	-3.5	7.2	-1.3	-1.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1556.5		1301.9		808.9		686		562.7		147.5	
RMS	723.4		421		172.9		304.3		383		743.7	
1/2 P-P	1458.7		850.8		371.4		618.7		702.7		1337.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-712	185.7	-434	53.9	-74.6	-181.7	99.4	-359.9	164	-448.2	382.8	-842.4
2nd	-350.8	-554.2	-194.3	-316.3	-78.4	-41.6	-15.8	130.3	-9	190.7	-227.9	349.4
3rd	134.5	-167.7	79.1	-95.8	3.2	-27.9	-33.1	13.9	-45.1	36.2	-121.1	223.5
4th	40.6	13.8	25.6	0.8	1.3	-16.8	-27.1	-32.9	-38.4	-31.4	-42.5	-17.3
5th	57.8	33.4	23.7	15.3	-12.4	-11.8	-51.6	-48.2	-68.9	-60.5	-40.4	33.9
6th	23.5	-1.6	8.2	-3	-10.5	-5.6	-29.8	-7.9	-30	-8.8	4.9	18.1
7th	7.3	-16.3	3.8	-9.4	-5.1	-1.1	-18	3.2	-24.9	5.6	25.6	3.6
8th	-15	-49.9	-16.5	-10.8	-22.1	46.2	-25.5	88.5	-15.4	84.3	47.6	-79.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-462.5		-824		-912.3		-5237.6		-2365.6		-520.9	
RMS	797.2		696		438.6		4153.4		1963.5		289.2	
1/2 P-P	1484.9		1541.1		1381.7		6941.6		4180.5		500.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	429.9	-803.9	253	-635	-74.6	-224.9	-3876.3	4207.1	-1343.9	1711.3	263.2	-268.5
2nd	-420	251.2	-410.1	181.1	-293	53.6	862.6	771.9	456.6	-84.2	-84.6	120.3
3rd	-120.7	337	-149.8	332.8	-100.6	223.5	169.9	-127.2	-299	23.6	-34.4	-5.8
4th	38.8	141.1	47.3	209.5	-5.9	184.9	9.1	38.5	214.5	-1536.7	-7	39.6
5th	182.4	24.6	267.6	50	217.7	53.7	19.4	30.4	-2.1	-110.1	27.6	1.2
6th	54.3	-8.7	78.8	-60.4	90.5	-52.1	27.1	-25	-33	42.2	9.2	-2.4
7th	6.5	-16.6	-44.2	-20.5	-65.4	-30.4	25	14.2	-15.9	-11.9	-3.8	-3
8th	-4.9	0	-41.5	129	-70.8	151.5	-333.4	-158.6	372.6	128.6	0.8	3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1453.7	-2741.2	1592.1	-3565.7	-676.1	-379.3						
RMS	505.8	4672.2	533.9	4676.4	3999.5	2898.9						
1/2 P-P	1005.4	7785.4	1093	7776.7		5467						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 4, $r/R=0.400$		Blade 1	
1st	98.5	-52.6	-5165.8	123.3	-3.2	5031.4	-4048.9	-3397.2	2900.2	-2572.9		
2nd	382.2	493.6	-878.8	-391.9	-551.6	861.2	938.5	750.2	522.2	267.2		
3rd	-189.9	-193.6	-138.7	-145.2	216.3	-127.7	117	92	158.9	-6		
4th	66.5	36.2	103.1	63.6	16.6	61.8	-70.9	-243.8	23.8	-1112.2		
5th	-4.2	55.9	-12.9	-44.7	-37.5	-11.6	-32.3	-13	11.2	48.3		
6th	-35.4	-2.7	6.7	27.8	2.2	9.5	-25.9	1	-48	28.5		
7th	-14.7	-14.1	3.8	-12.9	16.8	2.1	40.4	21	-11.9	-47.9		
8th	3.7	-69.8	-123	-3.4	-34.9	-373.2	-139.4	-149.7	-148.3	-67.3		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1502.2	-516.7	0	-4844.4	0	-609.4	-42.8					
RMS	2396.2	314.2	0	4432.5	0	289.1	24.3					
1/2 P-P	4775.5	518.9	0	7393.9	0	497.4	50.8					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2043.7	-2150.7	304.4	0	0	3804.4	4813.1	-258.7	20.4	-7.7		
2nd	434.6	21.9	145.6	0	0	-707.4	-853.9	101.3	-18.4	15.6		
3rd	260.7	-46.4	26.3	0	0	156.2	160.2	15.9	-2.1	-4.5		
4th	-97.5	-1508.9	-3.2	39	0	2.5	-13.3	-5.9	-3.3	4.5		
5th	18.3	97.5	-21.7	-3.5	0	3.1	1.6	-2.6	3	3.1		
6th	-52.1	44.8	8.3	1.4	0	-20.3	25.7	-4.6	1.3	0.8		
7th	-9.9	-45.2	3	3.5	0	27.2	31	1.5	-2.6	-2.7		
8th	155.9	54.1	-0.8	4.1	0	-313.1	-146.7	-1.6	-1.6	-3.7		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2468.4		1869.8		1042.6		799		655.9		277.1	
RMS	927.8		548.6		192.2		295.9		370.6		725.4	
1/2 P-P	1840.2		1034.6		515.1		691.4		763.5		1364.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-1053.8	352.3	-645.3	163.9	-156.2	-135.6	64.5	-333.7	138.9	-425.8	339.3	-830.2
2nd	-519.1	-272.5	-299.4	-150.6	-110.2	8.7	-14.5	118.5	2.4	158.4	-231.5	242.9
3rd	162	-237.3	97.6	-133.9	-0.6	-34.5	-40.4	29.5	-56.8	58.7	-143.2	305.7
4th	81.8	36.5	45.4	8.5	-7.8	-26.1	-53.8	-52.5	-71.8	-52.4	-39.9	-58.5
5th	83.2	-35	35.3	-9.3	-24.1	20.1	-80.1	32.9	-101.3	36.9	-55.2	35
6th	48.3	6.3	18.5	-0.4	-18.6	-11	-53.5	-19.1	-56.2	-20.4	21	31.7
7th	23.6	-21.9	10.3	-11.5	-10.4	0.5	-32.8	7.8	-40.8	11.8	44.5	-15.5
8th	-10.7	-63.6	-15.6	-16.8	-26.2	50.6	-31.2	103.4	-18.3	100.7	56	-94.6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-408.8		-848.9		-1022.9		-4201.2		-2351		-547.4	
RMS	876.3		828.6		556.4		5283		2510.6		312.7	
1/2 P-P	1789.5		1904.3		1576.1		8340		5372.2		602	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	417.5	-821.4	247.9	-673.6	-82.3	-268	-3790.6	6242.7	-1285.3	2309.2	349.6	-210.9
2nd	-547.6	143.5	-560.1	116.1	-398.1	60.2	1315.3	320	653.8	-242	1.6	23.9
3rd	-117.7	426.5	-171.7	406.6	-136.9	264.7	308.4	-232.7	-645.5	61.8	-118.9	-46.1
4th	129.7	157.7	194.8	231.9	114.2	175.2	-26.9	5.6	-262.1	-2037.9	-57.1	77.3
5th	273.8	-170.9	385.7	-172.1	321.3	-91.7	-7.8	76.8	24.3	-384.7	28.2	22.8
6th	73.6	1.7	67.1	-80.2	56.8	-69.3	38.7	-56.1	-106	79	8.3	9
7th	-0.1	3	-50.6	17.8	-85.5	-12.8	-10.4	22.5	6.3	-8.6	1.7	-5
8th	-9.7	-13.5	-57.1	164.4	-74.1	195.1	-380.2	-196	409.5	179.4	1.4	3.5

RUN/POINT 34/30	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	2439.8	-1926.1	2555.5	-2540.3	237.9	-21	3483.5	6439.4			
1/2 P-P	RMS	554.8	5799	641.3	5626.8	4827.8		7664.3				
		1242.5	8913.4	1382.1	8728.5							
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	1.5	-318.6	-5845.9	-5551.1	451.8	-198.6	-5969.6	4396.3	-5041.5	2917.8	-3590.9
	2nd	489.3	293.7	-1164	-641.3	-547.4	-334.6	685	1060.9	555.2	761.6	136.6
	3rd	-274.2	-214.8	-190.1	-284.7	-173.4	298.1	217	-154	173.9	306.5	12.7
	4th	106.9	54.9	161	141.1	98.2	24.8	-122.3	-11.7	-328.1	-329.6	-1357.4
	5th	69	103	-40.9	0.9	-59.2	12.5	-7.3	6	-11.4	34.3	205.9
	6th	-54.1	-14	-14.5	33.2	37.7	8	0.2	-0.7	-42.5	-47	77.3
	7th	-15.4	-31.9	12.1	12.7	-31.7	21.2	-15	-17.9	6.8	-19.1	-84.5
	8th	29.7	-71.9	-373.8	-163.1	-13.2	-56.2	-366.9	-301	-185.1	-119.2	-84.8
RUN/POINT 34/30	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1380.7	-536.7	0	0	-3919	-640.3	305.5	571.9	63.8		
1/2 P-P	RMS	2925.8	334.4	0	0	5522.8	305.5					
		5834.4	618.2	0	0	8563.2						
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	2023.4	-2895.8	-356	261	0	5735.8	5080.1	-212.5	-343.5	18.7	17.4
	2nd	635.3	-97.8	4.6	64.5	0	-1170.4	-631.3	44.6	-45.9	-6.6	3.3
	3rd	538.7	-77.8	103.8	47.7	0	175.1	299.8	50.8	-84.6	-15.1	-14.3
	4th	-621.3	-1800	-63.1	70.8	0	11.3	-45.6	-61.5	60	-14.3	7.9
	5th	55.5	341.5	-21.3	-28.3	0	23	-10.6	18.9	-27.5	1.9	9
	6th	-48.3	137.2	11.2	5.8	0	-46	82.1	-7.6	-6.8	1.5	1.6
	7th	-2.8	-69.8	-0.2	5	0	-20.9	22.9	-1.7	-0.9	-1.8	-1.3
	8th	187.3	76.1	1.6	7.9	0	-345	-191.7	-1.5	10.1	0.5	-4.9

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
35/13		Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325	
MEAN		-3529.2		-1852.8		-501.6		121.5		123	
RMS		581.5		354		194.9		257.4		310.3	
1/2 P-P		1022.3		627.5		362.2		505.2		589.4	
HARMONIC		COSINE		COSINE		COSINE		COSINE		COSINE	
1st		45.7		47.6		90		147.3		182.9	
2nd		-118.9		-50.8		-4.8		28.3		35.7	
3rd		-214.2		-119		-9.5		76.6		104.3	
4th		-63		-27.8		7.6		33.5		43.1	
5th		32.7		18.5		5		-9.6		-18.9	
6th		-6.7		0.6		8.2		12.3		14.3	
7th		6.2		-4.7		-0.8		-6.4		2	
8th		-21.5		-34.1		19		32.1		66.6	

RUN/POINT 35/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-3705.8	-5255.4	-3689.3	-5920.8	-2834.7	-942.5					
RMS 1/2 P-P	769.2		1167.6	862.1	1465.1	1199.9	832.1					
	1453.2		2101.4	1674.7	2548.8	2060.2	1443.6					
HARMONIC	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
	567.8		579.4	232.3	-1515.7	-809.2	481.9	1918.2	397.1	1569.2	393.7	1122.7
	170.5		653.8	-166.8	-535.5	-155.5	-702.3	166.6	594	122	451.2	87.4
	150.3		172.1	-80.5	67.6	200.6	-149.6	56.5	91.5	45.2	56.4	-16.5
	-49.5		-40.4	51.4	42.2	-55.2	-53.2	42.3	6.5	4	-13.9	-152.5
	-48.9		38.7	60.3	-34.6	-34.2	-72.6	41	89.6	17.9	45.1	-31.1
	-4.7		11.6	12.2	-4.6	-9.1	-7.9	-1.5	-5.4	0.6	-7.9	-6.6
	-3		-14.3	-1.9	-27.7	-10.4	5	-0.6	-32.6	-1.8	-27.8	-9.8
	-32.2		-35.1	-97	-21.2	-20.1	-15.9	-108.5	-24.7	-88.9	-27	-51.1
RUN/POINT 35/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1489.1	-417.7	0	-6957.2	-466	-87.6					
RMS 1/2 P-P	657.2		273.6	0	1029.8	242.5	40.6					
	1349.1		425.6	0	1889	394.4	68.5					
HARMONIC	COSINE		SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE
	821.3		-80.3	-135.7	337.2	0	0	-476.9	1230.6	-295.6	-131.6	33.5
	57.5		15.3	18.2	122.7	0	0	-106	-547.2	-9.5	-106	-4.4
	-55.9		-75.6	9	22	0	0	112.1	-13.3	7.7	-8.4	-0.2
	-233.5		-148.8	30.8	26.2	0	0	51	22.8	32.3	15.9	4.5
	-69.2		-241.2	0	1.5	0	0	-83.3	42.7	-1.6	-0.4	-0.6
	3.6		-27.8	0.3	-0.4	0	0	-25.2	18.1	0.2	2.9	-0.2
	-6.5		24.2	-1.5	0.3	0	0	0.5	-32.2	0.4	2.3	-0.1
	45.2		14.6	2.6	2.9	0	0	-91.9	-21.5	3.9	4.8	-0.5

RUN/POINT		Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
35/14							
MEAN		-2291	-1083	-185.2	253.6	224.7	-161.6
RMS		500.5	278.5	118.9	233.4	294.5	540
1/2 P-P		992.4	561.9	280.7	468.2	541.9	941.3
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		-395.4	108.2	-21.1	-140.5	154.1	-326
2nd		-211	-504.3	-27.8	105.5	31.5	153.8
3rd		-125.7	19.2	-6.7	21.9	67.8	-20.7
4th		-32.3	-31.7	6.7	44.8	23.7	20.6
5th		17.3	51	10	19.5	-0.3	-72.8
6th		-0.1	-10	5.2	5	5.6	13
7th		10.3	-4	1.5	-5.2	-10.5	-0.2
8th		-22.6	-25.1	17.3	31.4	31	47
							-22.7
							-577.9
							308.1
							56.7
							30.4
							8.6
							-5.2
							8.1
							-61
RUN/POINT		Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
35/14							
MEAN		-395	-513	-380.6	-6835.5	-2407.5	-454.4
RMS		512.5	401.5	214.6	640.9	483.1	227.6
1/2 P-P		943	801.8	561.2	1465.6	1263.6	374.6
HARMONIC		COSINE	SINE	COSINE	SINE	COSINE	SINE
1st		300.1	-549.2	176.9	-401.6	-409.7	267.1
2nd		-81.6	262.5	-82.2	184.7	106.7	-78.3
3rd		106.9	136.2	99.6	165.5	56.8	82.9
4th		-73.5	7.1	-119.4	23.1	-126.8	-7.1
5th		16.6	115.3	41.5	121.4	-11.1	12.8
6th		6.2	-28	35.2	-24.9	2.2	-2.4
7th		19.7	-14.4	4.4	-11.3	-19.9	0.5
8th		17.9	14.7	49.5	63.6	149.2	2.1
							2.7
							-271.6
							95.9
							-5.6
							12.1
							3.8
							-3.4
							-1.5
							2.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/14												
MEAN	-2433.5	-4423	-2392	-5101.3	-2076.3	-633.5						
RMS	433.4	1080.9	485.2	1317	1094.9	778.8						
1/2 P-P	868.5	2089.3	1068.4	2438.7	2003	1490.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	123.2	156.5	345.2	-1324.4	-283.1	38.8	521.4	1365.2	452.9	1028.7	25.2	
2nd	267.9	489.2	-318	-471.6	-259	-536	525.8	258.5	404.3	168.1	122.8	
3rd	11.6	86.4	-61.8	42.5	108	-18.5	71.5	30.7	50.6	-3	-38.4	
4th	-19.2	-23.4	49	30.4	-26.3	-39.6	-7.5	2	-23.7	-136	-148.3	
5th	-51.2	15.5	54.9	-17.5	-12.5	-78.9	80.4	0.4	38.5	5	-134	
6th	-3.2	11.8	-2.8	0.6	-7.3	-10.8	5.7	4.5	0.8	-18	-19.2	
7th	0.9	-8.9	28	-6.4	-9.4	6.5	-5.1	23	-4.3	-8.8	-12.5	
8th	-33.2	-35	-155.8	-3.9	-17	-21.6	-13.7	-143.2	-21.6	-80.1	-2.4	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
35/14												
MEAN	-1368.5	-453.1	0	-6220.2	0	-513.5	-87.1					
RMS	647.8	261.3	0	903.3	0	232	31.2					
1/2 P-P	1355.6	421.2	0	1700.7	0	380	55.8					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	787	-162.4	-152	316.7	0	0	893.9	-273.3	-150.6	24.6	-32.8	
2nd	117.7	-11.8	-5.9	108.8	0	0	-475.4	19.1	-95.4	-10.4	10.5	
3rd	-24.4	-68.6	14.1	15.3	0	0	-3.5	9.4	-11.8	-1.1	-2.1	
4th	-204.4	-171.4	17.9	18.6	0	0	18.2	15.9	12	1.4	2.8	
5th	-10.4	-226.1	2.6	-3.2	0	0	13.6	2.1	2.3	-2	1.8	
6th	-16.2	-31.5	0.4	-2	0	0	-4.9	-0.4	2.8	0	-0.3	
7th	-28.5	5.7	-1.1	1.5	0	0	-4.1	1.2	1.8	-0.6	-0.6	
8th	63	11.7	2.2	3.1	0	0	-18.8	3	3.6	-0.8	-0.9	

RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
35/15		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN		-1030.9		-302.4		140.5		408.6		353		-22.4	
RMS		403.9		233.1		147.9		246.9		303.4		544.1	
1/2 P-P		737.6		461.4		299.5		457.3		512.9		952.7	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		-166.7		-41.8		-81.9		-183.8		129.8		-287.8	
2nd		-180		-494.7		-92.1		-42.6		0.9		104.9	
3rd		-90.7		-60.8		-46.3		-39		36.1		-2.1	
4th		-9.5		-24		-0.3		-13.3		5.1		7.5	
5th		-23.4		7.7		-3.4		3.2		22		-8	
6th		11.3		-8.6		7.8		-1.9		-7		9.5	
7th		7.4		-5.1		7.3		-2.9		0.5		-1.1	
8th		-5.4		-21.8		-4.8		-0.5		-5.5		27.2	
RUN/POINT		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
35/15		Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN		-390.3		-606.4		-564.7		-5761.6		-2311.5		-486.6	
RMS		536		428		240.6		1601.8		871.4		227	
1/2 P-P		905.3		854.3		623.9		2863.1		1910.5		395.2	
HARMONIC		COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st		324.8		-544.1		189.6		-407		-1933.1		891.2	
2nd		-165.9		222		-149.2		152.8		401.9		558	
3rd		37.1		276.5		22.4		297.3		40.4		-121.3	
4th		-42.2		22.3		-65.5		44.2		25.1		50.3	
5th		-68.2		6.7		-58.4		11.1		-73.4		-6.9	
6th		22.7		-21.8		41.2		-24.2		56.5		-50.3	
7th		15.7		-9.2		5.2		-13.2		-13.2		14	
8th		0.3		15.1		-2.9		66		14		-25.6	
										-218.3		-25	
										213.7		10.1	
												-0.4	
												3.2	

RUN/POINT 35/15	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1164.9	-3375.8	-1096.2	-4017.2	-1130.3	-282.4						
RMS	524.3	2244	543.5	2346.1	1963.5	1408.9						
1/2 P-P	979.3	3799.3	1055.2	3928.9	3219.9	2411.2						
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.400$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	276.5	420	-877.7	-2929.7	-468.7	190.9	3113.1	-772.4	2623	-610.6	1787.6	-674
2nd	245	469.2	-416.4	-640.6	-231.6	-510.9	391.7	671.9	304	529.3	198.3	201.2
3rd	-76	46.1	-120.8	-5.9	67.7	74	-24.7	104.3	-9.3	72.1	32.4	-42.6
4th	2.3	-10.4	77.6	32.8	-10.3	-23.4	30.7	-17.4	-21	-62.6	-257.4	-315.7
5th	-10.2	-32.2	29.5	52.2	27.1	-37.9	-46.4	32.3	-21.3	16	95.1	-28.2
6th	-14.5	5.9	15.4	-2.9	3.7	-10.3	3	8.7	4	-0.8	-7	-15.4
7th	0.1	-5.9	18.6	-34.9	-6	6	16.6	-17.6	11.3	-17.9	-8.9	-20
8th	-18.9	-32.1	-208	-1.1	-17.2	-24.4	-228.6	-5	-200.8	-18	-112	-2.8
RUN/POINT 35/15	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1249.1	-481.9	0	-5189.1	-549.2	-82.4						
RMS	1121.8	258	0	1889.1	231	34.7						
1/2 P-P	2180.6	426.8	0	3264.8	381.7	61.7						
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1279.2	-661.1	-185.1	289	0	0	668.4	2476.4	-245.6	-185	32.7	-30
2nd	147.5	42.4	-40.9	110.2	0	0	-345.8	-576	55.1	-88.7	-16.6	11.3
3rd	40.5	-89.5	11	20.5	0	0	126	55.1	19.5	-10.4	-0.8	-1.5
4th	-395.1	-384.3	14	25.6	0	0	26.6	20.2	13	20.8	0	4.1
5th	151.6	-61.9	2	-0.3	0	0	-45.8	-52.5	-0.9	-0.4	-1.7	2
6th	-4.5	-30.4	-0.1	-0.9	0	0	-7.5	2.1	-1.8	2.2	-0.1	-0.1
7th	-18.2	4.2	-1.9	0.6	0	0	9.4	-17.8	-0.5	1.1	-0.8	-1
8th	80	5.5	0.7	2.6	0	0	-215.2	-24.9	1.5	4.4	-0.5	-1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144		Blade 1, r/R=0.167		Blade 1, r/R=0.215		Blade 1, r/R=0.280		Blade 1, r/R=0.325		Blade 1, r/R=0.570	
35/16												
MEAN	-228		195.6		343.9		493.1		417.3		36	
RMS	578.1		339.4		163.8		257.9		322.9		601.4	
1/2 P-P	1062.5		608.9		338.6		467.3		569.8		1012.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		-581.2	-62.3	-343.9	-95.8	-55	-205.8	102.4	-316.3	159.1	-380.4
	2nd		-212.2	-516.3	-111.8	-292.2	-45.7	-40.9	-8.5	114.6	-5	169.7
	3rd		-29.2	-91.6	-12.4	-56.4	-1.6	-21.9	17.4	-0.2	27.7	15.1
	4th		-13.1	-10.9	-2.6	-7	4.5	-1.3	5.6	-3	5.3	-1.2
	5th		-21.4	24.6	-2.6	9	23.7	-7.3	43.7	-29.1	48	-38.5
	6th		14.9	-8.1	7.4	-1.9	-1.9	5.4	-14.6	9.9	-16.3	10.5
	7th		4.5	-6.7	5.4	-2.7	4.4	3.3	-0.4	5.2	-4.8	4.3
	8th		-5.2	-20.1	-5.3	-2.8	-7.3	21	-9.3	38.7	-7.8	36.9
-37.1												
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
35/16												
MEAN	-416.7		-684.9		-679.6		-5424.4		-2300.9		-510.5	
RMS	604.6		481.9		253.7		2130.3		1058.8		249.2	
1/2 P-P	1015.7		892.6		629.7		3345.5		2285.9		417.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st		360.7	-627.2	216.1	-476.9	-42.1	-146	-1771.3	2270.4	-776.2	998.8
	2nd		-233.8	243.3	-216.5	171.7	-151.2	44.8	569	594	233.4	-75.5
	3rd		9.2	277.5	-9	290.4	4.2	203.9	57.3	-120.6	-82.8	101.9
	4th		-30.6	49.8	-44.8	80.8	-58.4	86.8	30.2	43.1	-304.9	-557
	5th		-61.3	34.2	-46.1	46.4	-20.7	38.3	54	-40.4	-144.8	40.2
	6th		37.7	-22.4	57.5	-33.6	62.4	-22.1	-4.4	6.6	20.5	-12
	7th		13.9	-14.3	-1.6	-16.7	-11.9	-10.3	31.1	-18.7	-21.3	19.7
	8th		-1.8	6.8	-4.1	53.1	-21.7	60.7	-164.5	-52.6	178	41.4
2												

RUN/POINT 35/16	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	MEAN	-353.9	-3027.9	-261.6	-3680.3	-789.3	-163.7					
	RMS	453.2	2654.6	459.7	2633.3	2228.9	1649.7					
	1/2 P-P	864.1	4246.3	882.3	4201.7	3572.1	2937.6					
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	295.2	5.2	-2157.1	-2917	-30.2	204.3	2947	-2061.2	2537.1	-1705.5	-1391
	3rd	271.5	481.5	-594.5	-686.6	-266.2	-537.1	550.7	736.2	436.8	579	204.1
	4th	-101.8	-14.2	-124.2	-29.7	17.7	104.5	-57.2	111.2	-37.8	76.5	-64
	5th	3.7	6.6	73.8	22.8	-4.8	-12.4	33.9	-27.3	-18.8	-78	-354.5
	6th	-26.3	-33.7	39.6	46.6	27.6	-54.2	-37.4	44.1	-15.7	20.7	-67
	7th	-19	10.4	-6.8	-8.9	14.6	-11	1.7	1.8	3.2	-1.6	-16.5
	8th	-1.1	-2.7	10.6	-12.6	-2	6.6	30.1	12.8	22.5	5.1	-24.7
		-8.9	-36.3	-168.7	-34	-3.8	-26.7	-176.9	-37.5	-150.5	-45.8	-17.9

RUN/POINT 35/16	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	MEAN	-1230.9	-506.9	0	-4896.1	-580.1	-75.8					
	RMS	1341.9	278.1	0	2306.5	254.3	33					
	1/2 P-P	2646.9	460.1	0	3663.3	422.1	60.6					

HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	1269.2	-1195.1	-215.8	294.3	0	2018	2412.7	-253	-219.6	26.1	-30.3
	3rd	224.1	14.5	-51.7	130.4	0	-507.3	-623	72.8	-100.5	-18.6	13.8
	4th	53.9	-109.6	14.5	27.2	0	138.4	68.4	27.9	-19.4	-1.1	-3.6
	5th	-401.8	-439.2	10.7	24.7	0	35.6	1.6	4.7	19.1	-0.4	3.8
	6th	157.9	-112.2	-0.1	-0.6	0	-70.4	-47.9	1.7	-0.6	-1	2.1
	7th	1.3	-26.2	-0.1	-1.6	0	-2	4.1	-1.7	2.4	-0.2	-0.4
	8th	-19.8	-15.5	-0.7	-0.3	0	40.1	-3.5	0	0	-0.9	-1.1
		67.7	20.4	0.3	3	0	-155.1	-58.9	0.1	3.7	-0.8	-1.5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
35/17												
MEAN	-419.9	-748.4	-800.5	-4965.7	-2280.3	-521.4						
RMS	657.6	544.1	308.6	3258.8	1395.9	264.5						
1/2 P-P	1165	1136.2	891.8	5217.1	3196.5	447.3						
HARMONIC												
1st	COSINE 374	SINE -662.8	COSINE 216.9	SINE -516.2	COSINE -68.9	SINE -173.8	COSINE -3225.4	SINE 3104.1	COSINE -1090.7	SINE 1267.6	COSINE 226.3	SINE -256.1
2nd	-282.3	241.3	-264.4	169.6	-182	44.6	581.9	722.7	250.3	-41.5	-86.5	119.7
3rd	-72.2	352.8	-96.8	357.2	-63.2	247.6	96.2	-139	-180.3	106.8	-10	-13.6
4th	0.5	93.9	1.5	138.4	-27.9	126.9	13.7	32.8	-278	-851.9	5.2	25.3
5th	-6.9	-2.1	26.8	17	39.1	29.3	31.1	4.9	-106	-76.5	11.2	-1.6
6th	42	-20.1	61.8	-44.1	69.3	-31.4	4.5	2.8	-7.6	-7.6	6.1	0.6
7th	15.8	-7.7	-0.4	-18.6	-14.6	-24.6	-31.8	-20.1	30	17.2	-1.3	-1
8th	-8.3	2.2	-44.9	65	-67.1	73.3	-130.7	-158.7	139.4	154.4	1.4	2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
35/17												
MEAN	482.1	-2571.6	573.1	-3206.7	-333.5	-9.4						
RMS	533.5	3866.7	544.1	3821.3	3230.1	2269.2						
1/2 P-P	1009.8	6183.9	1079.5	6070.8	5147.8	3971						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	316.9	265.5	-2949.6	-4454.4	-287.6	207.2	-2853.6	-2360.3	2499	-1840.3	
	2nd	260.9	499.9	-600.1	-832	-265.9	-568	965.2	458.9	316.8	302.2	
	3rd	-167.9	-76.3	-137.9	-65.9	-48.7	157.5	-60.5	-28.4	109.4	-41.4	
	4th	28.6	33.5	98.7	41.6	14.4	-0.4	44.5	-44	2.2	-224.2	-532.7
	5th	-12.2	-26.6	14.3	42.6	13.6	-48.6	20.4	-3.5	13	104.8	0.9
	6th	-26.8	6.2	2.6	-7.2	14	-6.2	20.7	13.5	22.1	-13.5	-6.2
	7th	0.8	-7.4	-21.9	-17.2	-14.3	0	-12.3	-12.3	9.9	-7.8	-28.2
	8th	9.6	-35.8	-127	-148.4	-8.6	-26.6	-148.1	-115.3	-144.5	-59.4	-72.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
35/17												
MEAN	-1206.4	-522.3	0	-4429.5	-602.8	-67.1						
RMS	1772.7	289.2	0	3544.6	267.4	33.3						
1/2 P-P	3437.7	467.2	0	5580.9	453	64.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	1745.8	-1550.1	-237.6	291.3	0	0	2816.2	3996	-250.5	29.4	-24.4
	2nd	236.7	81.1	-71.8	139	0	0	-514.9	-812.6	96.3	-22	15.2
	3rd	162.9	-106.4	5.3	26.8	0	0	145.5	108.8	28.1	0.6	-2.8
	4th	-372.7	-686	9.7	21.5	0	0	7.8	-8.5	-0.6	-0.1	3.4
	5th	144.8	-13.7	-5.3	0.8	0	0	-21.4	-40.5	1.1	0.9	2.1
	6th	-18.5	-23	1.9	1.1	0	0	-5.2	11.4	-3.3	0.1	0.3
	7th	4.9	-24.1	-0.3	-1.2	0	0	-10.6	-2.2	-1.1	-1.3	-2
	8th	65	58.1	-0.1	3.2	0	0	-127.3	-151.8	-1	4.4	-0.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	940.5		922.3		644.6		634.8		532.9		168.8	
RMS	445.6		268.8		208		296.2		359.1		669.3	
1/2 P-P	885.4		553.9		364.5		555.5		646		1219.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-8.4	-235.8	-0.2	-193.7	102.2	-260	165.9	-350.8	207.8	-414.6	374.6	-728.4
2nd	-191.4	-505.1	-99.7	-283.4	-46.9	-34.3	-15	121.8	-18.2	176.2	-207.3	307.5
3rd	75.5	-192.7	46.9	-110.2	3.2	-27.4	-15	28.1	-20.2	55.8	-112.6	272.5
4th	8	11.5	5.2	2.7	-2.2	-7.1	-11.5	-17.7	-15.1	-19.6	-31.9	-12.7
5th	-7.3	-10.3	0.2	-2.1	9.7	10.6	14	17.4	14.9	17.3	-25.6	12.1
6th	28.7	-0.9	11.3	0.1	-11	-0.6	-34.8	-1.7	-39.3	-1.7	11.7	12.3
7th	7.9	-4.6	8.6	-1.2	6.3	4.3	0.6	6.2	-6	4.1	-2.7	-0.2
8th	1.9	-23.3	-6	-7.2	-19.9	15.4	-30.1	33.7	-26	34.9	38.9	-21.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-383.7		-737.5		-831.1		-4233.7		-2222		-524.1	
RMS	691.7		578.1		331.7		4421.7		1742.9		271.5	
1/2 P-P	1285.9		1180.7		925.8		6729.3		3747.3		462.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	373.1	-681.6	212.3	-532.5	-82.8	-184.4	-4675.5	3986.3	-1365.4	1528.4	241	-252.2
2nd	-349.7	214	-329.6	147	-224	38.6	665.3	864.8	334.6	-13.7	-98.2	119.1
3rd	-110.9	385.7	-135.5	381.4	-97.6	260.1	143.2	-117.4	-252.8	101.7	-2.4	-13
4th	-2.7	81.4	7	126.5	-18.6	112.5	41.2	28.1	-538.8	-1063.8	-0.3	34.5
5th	8.4	-70.6	40.4	-65.8	56.5	-26.4	38.3	7.1	-122.7	-128.3	13.9	-6.9
6th	59.6	-9.7	64.9	-41.4	54.5	-28.8	2.7	-4.2	13.3	21	4.7	-1.4
7th	13.9	-6.5	-1.2	-9.5	-21.6	-18.8	34	-6.8	-28.5	6.3	1.8	3.2
8th	-11.1	-3.1	-45.3	48.2	-63	53.1	-162.3	-138.7	169.6	128	-2.1	2.4

RUN/POINT 35/18	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	825.5	-1882.8	940.1	-2540.1	233.6	220.6						
RMS	692.4	5001.2	662.8	4906.4	4143.4	2866.3						
1/2 P-P	1190.2	7700.2	1164.1	7510	6357	4825						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	488.6	599.2	-3786.5	-5836	-585.7	364.1	5691.4	-3739.4	4859.6	-3090.1	3150.5	-2324.5
2nd	251.1	471.9	-699.8	-982	-248.9	-526.2	679.5	1079.9	548.1	864.2	403.4	355.8
3rd	-222.7	-119.3	-149	-103	-79.8	224.6	-93	121.6	-42.4	89.5	181.5	-58.5
4th	20.9	33.7	130.2	54.7	11.3	1.4	41.5	-62.3	-34.9	-156.1	-414.8	-662.8
5th	20.1	-23.9	-9.5	38.4	22.2	-4.9	-25.3	26.7	-3.9	34.5	105.7	76
6th	-32.1	1.7	-12.7	-3.1	27.6	-2.7	20	14.2	15.2	14.2	-3	11.6
7th	0.3	-2.7	21.9	-5.9	-7.5	7.3	13.8	29.5	8.2	16.5	-2.1	-31.5
8th	15.1	-40	-161	-126.7	6.2	-28.2	-191.2	-136.1	-155	-134.5	-77.1	-67.7
RUN/POINT 35/18	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1103.5	-524.9	0	-3762.4	-608.9	-66.4						
RMS	2231.5	294.2	0	4724.6	272.2	36.2						
1/2 P-P	4346.7	485.4	0	7190.8	465.7	66.7						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2175.2	-1915.8	-252.6	284	0	0	3689.4	5441.4	-243.7	-254.8	35.2	-21.8
2nd	332.1	104.4	-83.3	141	0	0	-589.4	-955.8	108.7	-99.7	-23.4	17.6
3rd	277	-131.4	2	23.8	0	0	127.1	139.2	29.3	-12.8	2.1	-2.8
4th	-650.8	-843.8	3.3	31.3	0	0	18.2	-19.4	-4.5	27.2	-1.6	4.4
5th	153.8	81.6	-7.9	3.7	0	0	-24.1	-63.6	-1.9	-8.9	1.3	2.5
6th	-9.6	2.7	3.3	0.1	0	0	-5.9	-5.8	-4.6	0.4	-0.1	0.4
7th	-17.3	-29.5	0.6	-1.7	0	0	39.9	25.6	-2	-3.2	-1.3	-1.5
8th	77.1	51.6	-1.3	2.9	0	0	-152.3	-144	-3	5.1	-0.1	-1.7

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	1826.1		1471		866.6		727		602.6		236.1	
RMS	538.3		312.1		190.8		299.3		371.5		701.7	
1/2 P-P	1116		646.9		354.5		613.2		707.2		1276	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-230.2	-47.7	-139.1	-73.7	52.2	-227	149.1	-354.8	199.9	-431.8	366.2	-790.1
2nd	-448.1	-496.8	-253.7	-282.7	-100.9	-30	-18.2	126.8	-3.9	182.3	-178.3	306.4
3rd	148.4	-213.2	88.1	-123	7.4	-34.9	-34.2	20.2	-48.4	49.4	-165	267.1
4th	35.2	16.1	21.6	2.7	0.9	-13.9	-21.1	-28.2	-29.8	-30.8	-44.8	-20.4
5th	1.3	-37.4	3.3	-12.5	5.4	20.7	1.7	44.8	0.6	49.6	-25.8	19.3
6th	27.3	-8.5	12.2	-3.2	-7.5	1.1	-28.5	5.8	-32.2	5.7	8.2	5.4
7th	1.1	-6.6	6.8	-3.5	12.4	2.5	11	3.7	4.4	3.3	-12.8	-0.1
8th	-5.2	-24.8	-7.8	-6.4	-13.2	20.8	-16.8	42.5	-14.1	42	30.9	-36
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-396.3		-792.8		-929.3		-3479.3		-2134.8		-524.3	
RMS	764.1		660		395.6		5690.2		2193.5		298.9	
1/2 P-P	1402.6		1328.7		1028.5		8498.5		4436.7		492.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	403.6	-762.7	229.3	-614.2	-96.2	-229.6	-5226.8	5934.9	-1551.7	2038.9	277.3	-266.5
2nd	-425.7	195.1	-445.7	133.2	-338.7	33.5	1135.3	849.6	454	21.6	-85.5	145.3
3rd	-142.2	374.8	-173.9	356	-133.1	231.3	194.4	-134.1	-318.9	33.7	-4.7	-4.5
4th	12.6	90	43.3	127.8	4.5	104.7	38.1	62.9	-255.8	-1559.1	5.3	40.5
5th	28.2	-139.2	58.5	-137.5	71.9	-75.2	1.3	38.8	-39.5	-274.3	17.4	-5.3
6th	61.6	-18.3	65	-53	57.5	-37.2	15.1	-7.1	-20.4	9.3	1.1	-2
7th	6.3	-7.3	7.4	-9.2	-11.1	-16.2	-1.1	-53.9	6.5	44.4	0.2	0.4
8th	-7.9	-1.4	-27.9	62.4	-36.8	71.3	-201.8	-112.9	211.4	102.5	0.2	0.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/19												
MEAN	1723.7		-1189.8		1863.1		-1869.9		831.4		437	
RMS	627.9		6151		615.9		5944.5		5047.9		3469.8	
1/2 P-P	1038.3		9361.8		975.3		9042.1		7689.5		5951.3	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	320.9	400.7	-5580.7	-6487.3	-356.4	158.4	6035.4	-5622.9	5208.2	-4699.1	3373.9	-3328.5
3rd	469.2	443.1	-1108.6	-1001	-491.3	-521.5	1151.7	1067.5	920.9	870.9	614.8	363.4
4th	-242	-186.6	-149.5	-168.8	-149.9	248.1	-144.1	130	-85.7	107.6	172.6	-0.8
5th	45.4	35.7	100.1	118.1	46.1	8.6	68.9	-53.9	20.7	-202.6	-252.7	-946
6th	47.6	-21.3	-24.1	35.7	23.7	5.6	-8.1	-18.2	7.5	9.8	82.4	131.7
7th	-33.4	4.3	-12.4	7.9	25.1	-4.6	-5.5	-6.3	-4.6	0.7	-8.3	13.4
8th	-3.7	-0.6	-14.3	-30.1	-3.8	4	-2.8	33.8	-7.1	18.2	-5.7	-36.1
	0.4	-41.9	-198.5	-96.1	-12.3	-30.5	-220.9	-106.3	-183.8	-111.1	-101.1	-55.3
RUN/POINT												
35/19	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN												
RMS												
1/2 P-P												
MEAN	-1011		-524.7		0		-3079.4		-620.6		-52.6	
RMS	2701.1		323.3		0		5939.1		296.6		31.2	
1/2 P-P	5157.2		517.2		0		9079.8		493.1		56.9	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	2316.3	-2633.3	-291.3	298.3	0	0	5551.5	6120.9	-253.2	-289.6	28.5	-6.4
3rd	467.3	115.7	-65.9	170.8	0	0	-1049.9	-988.4	104.4	-124.8	-23.4	21.7
4th	293	-49.9	2.5	9.6	0	0	115.7	197.4	19.4	-6.3	3.3	-3
5th	-475.9	-1260.1	5	35.5	0	0	36.4	-0.1	-3.1	25.5	-1.5	4.8
6th	117	193.9	-11.3	0.1	0	0	-4.3	-18.7	-4.4	-12.2	1.8	3.4
7th	-2.7	8.3	3.7	0.4	0	0	-16.1	33	-1.9	2.9	0.2	0.1
8th	-12.6	-37.5	-0.3	-0.9	0	0	26.2	-5.9	-1.6	-2.1	-1.6	-1.6
	93.2	38.1	0	4	0	0	-198.7	-122.5	-0.3	6.3	-1.2	-2.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570				
35/20										
MEAN	2321.8	1781.7	993.6	0	646.2	302.8				
RMS	673.7	400.6	282	0	419.3	744				
1/2 P-P	1186.8	716.7	495	0	756.8	1434.1				
HARMONIC										
1st	COSINE 388.6	SINE -285.9	COSINE 240	SINE -211.9	COSINE 220.9	SINE -291	COSINE 254	SINE -460.3	COSINE 389.7	SINE -803.9
2nd	COSINE -523	SINE -470.3	COSINE -297.5	SINE -267.1	COSINE -114.2	SINE -23.2	COSINE 0	COSINE 0.7	COSINE -205.6	SINE 269.7
3rd	COSINE 152.4	SINE -368.5	COSINE 92.7	SINE -209.8	COSINE 6.2	SINE -47.6	COSINE 0	COSINE -51.6	COSINE -179.7	SINE 394.8
4th	COSINE 46.8	SINE 31.8	COSINE 23.6	SINE 7.4	COSINE -10.8	SINE -24.6	COSINE 0	COSINE -51.3	COSINE -36.3	SINE -22.6
5th	COSINE 74.2	SINE 36.4	COSINE 31	SINE 17.9	COSINE -19.6	SINE -10.6	COSINE 0	COSINE -91.4	COSINE -29	SINE 23.1
6th	COSINE 29.3	SINE 2.5	COSINE 11.9	SINE 2	COSINE -8.5	SINE -2.1	COSINE 0	COSINE -33.7	COSINE 6.5	SINE 12
7th	COSINE 3	SINE -7.4	COSINE 8.9	SINE -6.2	COSINE 14.8	SINE -3.6	COSINE 0	COSINE 6.4	COSINE -15.2	SINE 13.2
8th	COSINE 6.4	SINE -44.9	COSINE -13	SINE -15.9	COSINE -43.5	SINE 26.6	COSINE 0	COSINE -51	COSINE 82.9	SINE -43.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
35/20												
MEAN	-350.2		-780.1		-968.4		-2628.3		-2056.7		-520.7	
RMS	833.1		754.9		492.4		7571.6		2828.1		305.6	
1/2 P-P	1559		1662.4		1406.5		11295		5759.5		491.8	
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	SINE	
	407.5	-766.4	223.1	-616.3	-118.4	-235.6	-7603.9	7296.9	-2021.3	2399	306.2	
2nd	-503.9	138.1	-525.8	76.6	-392.8	2.4	1356.2	1185.4	585	85	-74.7	
3rd	-149.1	501.9	-180.8	467.8	-137.6	298.5	230.7	-184.8	-533.3	74.2	-18.3	
4th	39.5	151.6	74.1	210.2	33	164.8	121.9	84.3	-1026	-2045.5	-15.1	
5th	210.4	39.7	286.4	72.2	237.5	74.9	-23.4	-9.8	79.7	-77.6	17.7	
6th	64	0.8	68.8	-42.9	56.4	-35.2	7.2	-14.7	-5.8	28.8	4.6	
7th	9.6	-14.4	11.8	-35.9	-2.7	-54.3	-11	-55	21	45.4	2.7	
8th	-23.4	1.3	-92.6	80.5	-104	84.6	-289.2	-263.6	321.9	267.1	0.8	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
35/20										
MEAN	2258.8		-409.5		2418.4		-1134.9		1463.6	691
RMS	1039		8112.7		984.3		7259.1		6146.2	4234.2
1/2 P-P	1863.3		12182.2		1745.2		10844.7		9171.6	7228.5
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	607	1054.4	-6880.4	-8959.7	-1019.2	340.2	7274	-6988.9	-5836	4035.2
2nd	514.4	424.9	-1339.3	-1363.3	-549.5	-522.3	1299.8	1297.3	1065.6	722.3
3rd	-410.5	-205.6	-210.3	-223.1	-173.5	399.7	-74.7	225.8	193.1	397.7
4th	54.6	48.1	218.8	152.9	57.8	14.9	100.1	-67.7	-251.8	-804.3
5th	13.2	62.9	13.6	-31.4	-46.3	-33	-51.8	-17.1	-0.1	-20.4
6th	-30.3	-4.4	-13.6	19.9	22.7	1.8	-17.9	-20.7	-6.1	-33.7
7th	-1.7	0.4	-31.9	-40.8	-5.2	3.8	9.1	36.1	17.6	6.5
8th	16.2	-59.4	-288.2	-221.4	-5.8	-51.4	-306.4	-214.2	-215.7	-135.5
										-102
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
35/20										
MEAN	-893.2		-515.5		0		-2390.3		-621.4	-49
RMS	3346.3		332.8		0		8023.4		304.1	38
1/2 P-P	6432.7		522.4		0		12034.4		501.1	71
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
1st	2761.3	-3180.4	-318.1	292	0	0	6987.3	8732	-243.4	37.7
2nd	572.3	175.7	-64.5	168	0	0	-1271	-1336.3	103.8	-24.9
3rd	587.8	-90.1	19	8	0	0	134.1	223.2	17	3.5
4th	-1275.6	-1480.1	-6.6	39.8	0	0	89.9	-24.8	-8.8	-5.4
5th	-3	129.8	-11.6	2.5	0	0	-21.8	45.1	-8.2	0.9
6th	-17.3	56.3	5.4	4.2	0	0	-7.6	41.3	-3.9	0.8
7th	-9.4	-36.3	-3.5	-0.3	0	0	20.7	5.3	-3.9	-1.5
8th	127.5	98.5	-0.5	8.8	0	0	-272.4	-256	-1.4	-1.3
										-4.6

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
17/26						
MEAN	-3338.7	-1900.9	-575	13.7	-16.1	-495.3
RMS	963.4	540.7	192.9	370.9	474.9	856.5
1/2 P-P	1865	999.1	399.8	796.6	1020.9	1585.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-258.5	151.8	64.4	-173.3	214.4	-336.6
2nd	265.6	-1164.8	74.4	-139.3	26.2	182.8
3rd	-416.2	341.3	-11.1	13.4	143.9	-91.9
4th	-126.8	-82.9	21	25.1	70.2	61.3
5th	-51.9	103	49.9	-33.9	104.2	-108.9
6th	-0.7	-22.6	10.5	22.6	10.9	40.1
7th	27.9	-9.8	-9.4	10.3	-30.7	15
8th	-41.3	-15.2	49.9	38.4	82.8	57.5
					80	44.6
						-90.4
						-75.2
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
17/26						
MEAN	-521.1	-475.2	-143.7	-8630.9	-2650.7	-376.1
RMS	778.2	654.4	422.5	1350.1	598.7	285.2
1/2 P-P	1582.8	1448.3	1054.6	2198.4	1362.5	454.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	377.7	-623.8	218.8	-429	-134.1	-1670.4
2nd	200.6	558.1	232	359.6	-300	774.3
3rd	366.6	127.7	398.1	233.5	26.7	-220.6
4th	-158.6	-153.4	-267.6	-136	81	46.8
5th	-175.1	262.7	-196.1	229.4	-180.3	136.6
6th	-29.2	-30.3	57	12.4	141.5	-158
7th	36.6	-40.1	-19.3	2.5	10.2	54.9
8th	56.6	45.5	145.8	31.7	-24.7	46.7
					9.5	-67.6
					86.9	20.6
						5.4
						4.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
17/26										
MEAN	-3778.6		-6205.3		-3829.9		-6688.6		-3482.5	-1274
RMS	1015.5		1287.2		1189.9		1482.5		1209.2	838.9
1/2 P-P	1965.9		2013.5		2320.6		2377		1873	1681.3
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	81.2	543.8	1377.2	-785	-914.3	-49.8	1066.1	1505.9	863.6	1287.6
2nd	-209.6	1179	239.8	-775.3	284.4	-1228.7	-310.8	847.6	-245	615.7
3rd	383.4	352.3	-220.3	46.1	423.6	-382.8	10.7	269.5	16.8	179.9
4th	-111.6	-74.4	77.9	-6.6	-112.1	-105.5	50.3	51.6	19.9	76.6
5th	-137.6	-52.7	188.1	104.1	68.2	-176.6	-125.7	202.5	-50	107.4
6th	13	10.4	12.2	-25.1	-33.3	-28	53.4	10.2	41.4	1
7th	-8.3	-26.6	-4.1	38.8	-33.9	17.9	-6.6	30.8	-19.2	21.4
8th	-54.2	2.9	-76.2	-4	-59.7	-14	-64.3	5.1	-51.3	7.9
										-17.3
										-5.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
17/26										
MEAN	-1734.5		-392.7		-3508.7		-7819.5		-428.8	-86.6
RMS	802.9		340.3		1033.2		1399.6		297.3	34.2
1/2 P-P	1782		553.2		2004.1		2211.2		473.5	58.9
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	779.2	221.6	-169.1	395.4	186.2	-229.8	-1668.6	484.2	-343.2	-163.2
2nd	-20.1	-38.3	-22.6	157.8	-291.3	1215	310.6	-792.2	21.4	-131.1
3rd	-27.7	-140.4	-63.5	97.8	-415.9	-486.5	259.1	34.7	64.4	53.6
4th	-115	252.7	11.4	84.5	-139.9	-97.4	89.9	51.7	29.7	78.9
5th	484	-447.7	5.1	-7.1	161.5	26.1	-167.9	-155.4	4.7	5
6th	-32.3	-47.9	-5.7	-3.7	14.8	27.2	-38.7	-55	2.7	5.3
7th	-6.2	7.2	-3.6	0.2	12.5	28.3	-32.7	31.2	0.3	4.5
8th	44.6	0.2	7	4.1	-91.5	-37.5	-78.5	-10.4	10.3	7.5
										0.9
										-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2412.9		-1201.5		-281.4		144		88.9		-404.7	
RMS	784.8		470.4		266.6		392.2		468.6		762.7	
1/2 P-P	1576.4		847		532.9		812.6		916.3		1423.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-106.4	-353.8	-305.7	-312	104.6	-312	224.2	-401.5	282.5	-453.4	546.5	-678.4
2nd	155.4	-899.9	-507.2	-93.6	41.1	-93.6	4.8	164.5	-8.8	252.1	-119.8	529.8
3rd	-324.3	223.4	113.3	5.5	-3	5.5	118.4	-63.5	171.7	-83.7	308.4	7
4th	-96.3	-56.1	-24.6	22.6	20	22.6	56.3	47.6	66.3	54.4	17.7	55.4
5th	-84.1	70.8	27.7	-19.4	60.8	-19.4	132.2	-69.4	149.5	-94.1	-53.1	15.6
6th	3.7	-19.7	-1.3	22.8	4.5	22.8	0.4	38.3	0.5	35.9	-1.6	-26.7
7th	27.6	10.7	6.3	-2.8	-1.3	-2.8	-18.8	-12.7	-25.8	-18.5	2.8	42.9
8th	-16.3	-8.7	6.6	28.6	21.7	28.6	33.5	39.4	33	28.9	-37.2	-37.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-545.4		-571.8		-327.4		-8647.7		-2655.4		-410.2	
RMS	688.9		582.8		414.3		1395.4		755.1		261.9	
1/2 P-P	1405.6		1318.5		1072.8		2681		1658.8		429.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	382.6	-601	214.2	-416.3	-4.8	-87.5	-1239.1	-1263.4	-772.8	2.9	151.7	-307.7
2nd	-1.3	416.8	37.7	265.7	42	55.7	-145.3	711.4	57.4	-72.3	-38.3	99.1
3rd	245.4	209.6	261.8	291.1	219.6	234.9	27.6	-188.5	142.3	92.1	52.9	-27.5
4th	-166.9	-114.5	-266.6	-114.4	-217.1	-30.4	55.9	6.1	-326.8	306.1	14.6	61.1
5th	-242.9	179.4	-279.6	160.7	-225.9	111.1	140.7	-118.4	-376.9	169.4	-12.8	1.2
6th	-18.7	-24.3	43.6	10.5	70.8	10.1	-1.5	39.2	26.3	-74	0.1	-6
7th	31.9	-28.4	1.2	-43.7	24.5	-17	-58.7	7.6	57.7	-30.4	5.9	-1
8th	30.3	31.6	70.3	-2.3	52.5	-1.4	-54.4	-49	51.4	38.3	3.8	5.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2615.3	-6197.7	-2651	-6717.5	-3441.2	-1333.3						
RMS	962.9	1729.4	1103.3	2031.4	1694.5	1240.9						
1/2 P-P	2017.9	3165.8	2491.5	3850.7	3190	2482.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	584.3	661	1019.2	-2046.6	-956.1	432.6	1206.8	1076.2	1596.7	385.5		
2nd	-104.8	916.9	106	-747.4	147.1	-998.4	857.6	642.2	12.3	233.9		
3rd	223.1	255.5	-143.2	33.8	314.9	-251.4	5.7	204	8.5	-23.8	-55	
4th	-82.8	-51	98.5	7.3	-90.9	-82.1	24.8	67.4	-14.2	-161.1	182.1	
5th	-99.2	-100.8	137.6	106.8	91.4	-140.8	-113.1	173.8	-46	311.8	-179.6	
6th	-5.3	21.1	7.6	-18.7	-20	-30.8	39.1	32.2	9.5	-52.2		
7th	15.8	-27.5	-27.7	27.4	-40.1	-6.8	8.4	-2	-1.4	-34.6	-16.3	
8th	-46.8	-15.4	-56.4	-38.1	-36.4	-18.8	-51	-48.1	-37.9	-12.7	-14	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1795.3	-419.5	-2393.3	-7832.2	-467.8	-84.3						
RMS	1052.7	309.5	884.6	1688.1	269.9	43.4						
1/2 P-P	2403.6	499.2	2034.3	3241.6	455.4	78.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1268.2	107.7	-170.6	366.8	-360.7	-398.4	1724	-314.3	-166.7	38.5	-43.7	
2nd	42.5	20.9	-34.7	123	-156.4	954.1	-749.9	35.1	-101	-6.9	5.4	
3rd	-74.1	-129.9	-53.3	54.3	-259.4	-375	35.1	30.9	41	9	-1.2	
4th	-212.9	234.1	10.1	71	-101.9	-74.4	19.1	20.9	61.6	0.2	13.1	
5th	453.6	-366.7	6.7	0.4	127.5	68.5	-143.4	-4.2	8.6	-2.5	-1.7	
6th	-9.3	-85.6	-0.9	-5.5	3	22.8	-39.8	-2.5	6.8	0.4	-1.1	
7th	-16.9	5.3	-5	1.5	-13.3	30	-15.1	0.8	6	1.4	-0.6	
8th	41.3	33.4	5.3	5.9	-49.7	-31.2	-48.7	7.6	8.1	0.4	0.8	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-1147.1		-418.8		46.3		290.9		208.2		-304.2	
RMS	746.8		450.4		290.8		419		494.3		798.9	
1/2 P-P	1530.2		882.3		569.2		874.4		972.6		1502.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	284	-249.9	201.4	-242.5	212.1	-299.9	268.9	-423.3	318	-489.1	599.1	-752.6
2nd	38.1	-914.1	41.9	-517.7	5	-97	-14.4	164.4	-27.3	251	-165.5	490.3
3rd	-261.1	107.4	-138.4	48.4	1.2	-8.9	101.2	-47.7	143.9	-56.7	245.4	79.1
4th	-74.8	-28.1	-29.2	-9.7	17.1	19	45.2	28	51.2	28.7	5.4	34.5
5th	-88	92.4	-25.4	33.3	61.1	-35.2	131.9	-104.6	146.2	-133.7	-44.3	19.1
6th	-4.3	-9.4	0.3	1.8	3.4	17.2	0.8	23.9	0.5	19.1	-4.6	-16
7th	30.3	18.8	12.3	6.8	-12	-14.6	-35.8	-32.9	-44.2	-36	19.4	70.3
8th	-47.9	12.5	-6.5	8.8	50.3	8.2	86.1	2.7	80.5	-7.3	-106	-6.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-581.5		-695.9		-527.1		-8557		-2683		-445.9	
RMS	724		597		428.5		2462.7		1104.4		265.6	
1/2 P-P	1375.2		1154.9		1122.8		4188		2150.9		444.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	431.6	-662.2	240.3	-468.3	-41.1	-110.4	-3147.4	-1063.1	-1242.6	152.5	184.6	-290.3
2nd	-85.2	389.4	-35.7	239.2	-11.6	36	-19.5	949.6	136.5	-30.7	-70	109.6
3rd	204.1	229.9	226.9	284.1	195.5	216.2	49	-145.9	191.8	134.9	43.9	-19.8
4th	-148.3	-33.3	-222.9	-28	-182.2	25.2	53	-25.9	-459.8	546.4	10.4	52.8
5th	-249.1	240.1	-279.8	240.8	-216.2	171.2	132.8	-141	-341.1	252.4	-8	-1.8
6th	-11.2	-2.9	41.7	21.4	65	22.5	-2.3	20.5	43.7	-45	4.6	-4.9
7th	20.9	-23.6	-12.4	-74.4	12.2	-63.1	-6.2	23	18.6	-36	5.5	0
8th	37.2	11.5	133.2	-58.9	131.3	-60.6	-87.4	-31	87.7	18	3.9	4.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$	Blade 3, $r/R=0.325$
MEAN	-1358.6	-6064.9	-1346.8	-6646.8	-3332.8	-1402.3						
RMS	1076.8	3004	1174.9	3254.5	2721.9	1944.4						
1/2 P-P	2076.3	4882.3	2260	5286.6	4513.5	3503.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$	Blade 3, $r/R=0.325$
1st	513.5	1084.5	841.5	-4019.7	-1272	417.8	4371.3	917.7	3655.8	843.3	2630.4	149.5
2nd	12.6	875.6	-50.6	-1009.2	51	-907	-56.7	1040.5	-45.6	801.1	99.4	312.6
3rd	119.2	192.2	-139.7	-15.1	241.2	-135.4	-12.2	147.7	-2.5	85.5	-23.8	-106.2
4th	-38.7	-7.7	101.4	-37.2	-47.2	-23.5	5.7	35	-47.5	87.1	-285.7	300.8
5th	-112	-94.5	149.1	112.2	98.2	-149	-106.1	151.2	-47.3	71.7	262.2	-226.6
6th	-2.3	15.7	-11.8	-24	-0.6	-22.3	28.7	23.8	23.9	7.2	4.5	-61.6
7th	27.1	-35.8	13	33.8	-33.9	-11.4	41.7	10.2	27.2	2.6	-19.1	-33
8th	-57.7	26.9	-103.5	-17.9	-46.9	14.3	-99	-26.6	-80.4	-20.3	-33.2	1.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
MEAN	-1883	-450.7	-1108.5	-7810.1	-509.5	-81.6						
RMS	1534.9	304.1	941	2879.6	269.2	47.4						
1/2 P-P	2880.6	493.6	1940.1	4785	457.2	83.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
1st	1978.6	-121.5	-199.1	344	-311.2	-792.9	-1195.7	3750.5	-293.1	-196.7	51	-37.6
2nd	116.3	81	-62	126.6	-70	930.8	99	-951.5	69.4	-103.3	-15.4	7.2
3rd	-77.6	-167	-46.7	40.6	-150.6	-288	166.6	48.3	26.7	29.7	6.8	0.3
4th	-372.4	416.9	10.2	52.2	-74.4	-25	27.1	-17.6	13.1	49.9	-0.1	11.3
5th	376.6	-401.5	5.2	5.6	153.3	63.8	-164	-123.6	-6.2	5.9	-1.7	-2
6th	-21.6	-83	3.5	-6.7	-0.8	15	-11.8	-42.6	-6	6.6	1.6	-1
7th	-37.7	-14.9	-4.6	0.6	-14.4	33	15.5	-0.7	-0.2	5.2	1.1	0.8
8th	57.1	23	5.6	3.7	-47.9	12.2	-91	-31.2	5.2	4.4	-0.5	0.4

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-445.5		17.6		232.6		380.3		282.5		-234.5	
RMS	670.5		407		289.4		423.2		498.2		806.5	
1/2 P-P	1478.2		846		591.8		843.2		912.4		1530.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	248.3	-257.8	176.3	-245.8	205.3	-304.1	267	-428.7	317.7	-496.2	606.7	-789.2
2nd	75.1	-815.1	61.8	-457	6	-75.9	-24.5	163.4	-41.2	243	-223.1	457.2
3rd	-168.9	108.8	-85.3	50.1	10.8	-9.1	81.7	-52.2	112.4	-61.2	157.3	91.7
4th	-39.8	-6.6	-7.5	2.8	25	20.7	44	22.6	46.6	19.1	-9.4	24.4
5th	-136.7	47.7	-40.7	18.3	84.7	-8.4	193.3	-40.4	221.8	-60	-42.9	12.5
6th	2.1	-8	5.4	0	8.3	11.6	6.8	15.6	6	10.5	-16.9	-3.3
7th	38.4	18.1	16.1	4.5	-13.1	-19.7	-38.3	-40.3	-46.8	-42.9	17.5	75.7
8th	-29.5	8.1	1.6	4	44	1.3	69.6	-5.4	63.6	-12	-87.6	3.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-582.4		-750.6		-630.4		-8592.7		-2738.7		-462.4	
RMS	756.6		631.1		430.9		2867.7		1246.5		271.7	
1/2 P-P	1461.1		1239.4		1075		4843.7		2637.5		453.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	442.1	-709.7	249.1	-516.1	-57.5	-138.5	-3876	-490.3	-1451.4	353.6	203.8	-289.6
2nd	-162.5	375.4	-97.6	239.8	-45.3	49.4	39.5	945.8	188.3	1.7	-89.9	99.5
3rd	109	228	133.3	266.2	129.5	203.2	44.6	-166.8	155.7	101.4	41.5	-14.8
4th	-147.1	-9	-202.7	-6.2	-165.6	38.3	7.6	-68.6	-92.2	544.9	-3.5	39.1
5th	-392.5	107	-449.8	105.5	-329	88.5	177	-51.9	-467.3	0.1	-16.5	0.7
6th	-10.6	-6.7	35.9	4.6	55.8	16.1	-4.2	30.8	16.4	-55.1	6.2	-6.9
7th	18.4	-15.9	-1.9	-76.3	20.9	-70.1	-34.9	43.7	30.4	-59.8	4.2	0.7
8th	29.1	1.9	112.2	-65.4	119.7	-71.8	-76.4	-23.9	67.6	4.5	2	3.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
17/29												
MEAN	-609.3		-6080.7		-577.5		-6655.2		-3300.1		-1466.7	
RMS	1006.9		3429.6		1052.7		3673.5		3085.1		2216.6	
1/2 P-P	2065.2		5646.6		2148.8		6018.1		5177.4		4268.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	504.1		998.5		-1115.1		374		460.2		454.6	
2nd	-33.5		823.1		-1059.2		61		-847.9		844.5	
3rd	100.7		116.5		-10.1		151		-114.2		107.3	
4th	-18		9.4		2.7		-34.2		-0.8		64.2	
5th	-82.6		-164.7		144		148.4		-108.5		49.1	
6th	-6.5		7.9		11.7		2.6		-11.1		24.3	
7th	26.7		-46.4		-1		50.3		-16.3		-0.4	
8th	-45.9		27.8		-90.3		-32.1		29.2		-22.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
17/29												
MEAN	-1972.1		-467		-409.7		-7798.1		-531		-78.9	
RMS	1715.9		308.9		874		3320.5		273.4		47.1	
1/2 P-P	3577.1		514.1		1888.9		5533		462.6		83.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	2219.8		-361.8		341		-760.3		-701.3		-215.2	
2nd	152.4		98.5		-82		838		18.2		-91.8	
3rd	-103.6		-93.8		-52.8		-197.5		157.6		30.7	
4th	20.8		226.9		3.5		-2.4		-5		-1.5	
5th	514.9		-247.9		7.1		137		-96.7		9.7	
6th	3.7		-111.5		5.3		7		13.7		6.3	
7th	-2.8		-21.3		-3.7		40.4		-32.9		4.7	
8th	51.2		20.9		2.3		29		-88.4		2.4	

MEAN
RMS
1/2 P-P

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
17/30										
MEAN	70.3	-6050	118.3	-6642.5	-3262.8	-1502.9				
RMS	580.5	2864	620.8	3034.2	2601.9	2051.8				
1/2 P-P	1187.5	4906.5	1262.8	5141.9	4378.8	3985.9				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	113.3	75.1	-3866.7	-143.8	-2.6	4103.1	-480.2	-384.9	2618.2	-685.2
2nd	77.6	756.4	-957.8	-69.6	-812.7	300.6	1039.1	809.2	332.8	284.9
3rd	86.1	86.8	-2.5	116.5	-96	-23	177.2	119.2	-15.7	-42.9
4th	-16.2	25.2	-51.1	-23.7	9	14.3	29.9	77.3	-7.3	270.6
5th	-129.7	-130.4	130.8	120.6	-148.4	-110.5	125.7	57.3	290.8	-186.5
6th	-1.9	0.9	-29.8	1.3	-8.1	44.7	43.3	19.2	-26.3	-88.5
7th	22.4	-50.5	24.9	-49.2	-18.1	-3.4	1.5	-7.2	-7.2	-40
8th	-62.6	89.7	120.1	-50.2	77.5	-97.3	127.7	111.9	-31.3	81.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
17/30										
MEAN	-2006.8	-481.2	449.4	-7866.9	-553.7	-74.1				
RMS	1670.9	324.5	746.6	2528.4	293.5	37.1				
1/2 P-P	3500.9	537.1	1699.6	4483.9	474.2	68.8				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	2023.7	-770	343.5	-40.1	59.7	301.2	3404.4	-249.2	34.2	-31.2
2nd	301.1	54.3	132	-110.4	935.1	-249.5	-911.5	-100.3	-18.9	11
3rd	-74	-73	35.1	112.8	-66.8	180.2	62	36.2	5.8	-0.4
4th	-0.2	351.7	37.8	-110.4	-189.2	-5.9	-16.2	-4	-1.4	8.2
5th	428.7	-326	10	57.2	202.8	-112.9	-164.3	9.4	-2.5	1.6
6th	-69.6	-118.8	1.7	102.2	66.6	-5.9	-34.3	-2.2	0.9	-1.6
7th	3.7	-19.9	-1.8	-26.3	-83.2	-24.8	10.4	6.3	1.7	-0.7
8th	61.9	-39.3	7.1	-91.2	154.9	-104.1	120	6	0	1.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	1127		-5373.4		1208.6		-5988.6		-2674.4		-1319.4	
RMS	963.8		5573.1		985.4		5551.9		4708.7		3378.7	
1/2 P-P	2045.8		8942.3		2068.1		8828.2		7461.5		5916.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	212.6	971.2	-1949.3	-7437.3	-1011.9	34.4	7318.6	-2322.8	6239.2	-1905.5	4276.2	-1698.5
2nd	399.2	783.8	-740.7	-1450.7	-409.9	-801.6	623.5	1416.6	501.7	1124	490	436
3rd	49	84	-224	-81.2	119.2	-59.1	-92.2	226.7	-64.3	154	-31.1	-23.6
4th	-28.8	30.9	98.3	-75.6	-21	36.6	46.3	13.1	44.9	55.8	29.8	228.5
5th	-152.2	-99.3	102.5	92.1	104.5	-171.8	-38.5	121.5	4.4	54.5	229.5	-211.2
6th	-19.5	-22.6	-11.3	-14.1	18.2	17.1	37.4	13	26.3	-1.6	-40.8	-69.8
7th	34.6	-60.5	10.8	26.2	-56.3	-30	31.8	17.9	24.1	3.5	6.7	-57.7
8th	-22.4	130.9	17.4	254.1	-26.6	112.8	17.3	275.7	-1.9	250.7	14.5	163
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1954.2		-518.1		0		-7249.3		-604.3		-78.7	
RMS	2564.1		346.9		0		5304.5		311.7		43.2	
1/2 P-P	4670.5		554.6		0		8560.2		530.3		76.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	3117.9	-1530.8	-313.2	330.8	0	0	1926.3	7071.7	-269.4	-307.2	51.9	-17
2nd	418.4	152	-55.9	151.6	0	0	-590.6	-1362.7	89.5	-110.3	-18.4	13.1
3rd	-75.3	-38.2	-35.8	57	0	0	247.6	130.5	57.3	17.7	4.1	-7.3
4th	29.8	290	-28.1	14.9	0	0	20.8	-44.1	-38.7	19.2	-9.6	0.6
5th	308.4	-343.8	17.6	-10.7	0	0	-133.3	-89.9	12.7	22.9	-6.4	2.5
6th	-66.4	-74.3	5.6	-6.9	0	0	-5.6	-15.5	-4.7	6.9	1.6	-0.8
7th	-5.9	-58	-5.9	0	0	0	12	-4.4	1.5	2.8	1.7	0.6
8th	11.7	-94.1	1.8	-7.4	0	0	-5.6	251.1	1.3	-9.1	-1.5	2.7

RUN/POINT 17/32	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	2061.4	56.3	-223.7	-30.8	71.3	-234.2	225.1	-410.3	305	-496.1	669.7	-841.8
RMS	626.7	-336.3	-198.1	-332.7	-102.4	-39.7	-75.6	158	-73.6	219.3	-329.6	293.6
1/2 P-P	1269.7	-168.4	-76.7	-64.1	6.2	-45.5	76.5	-27	103.3	-20.5	154.8	329.8
		-16.3	97.2	50.8	-13	-4.3	-6.5	-53.2	-10.5	-77	14.8	-31.5
		-117.6	127.7	55.3	65.4	-22.2	154.6	-101.5	175.2	-134.5	-23.4	-9.8
		13.8	33.7	4.4	13.6	-10.1	-18.7	-37.4	-21.5	-51.3	-22.2	43.7
		62.3	38.3	16.9	9.8	-36.7	-92.1	-73.5	-97.9	-74.3	61.6	130.8
		0.7	63.4	11.6	33.1	-65.5	36.2	-127.6	19.1	-128.7	-86	159

RUN/POINT 17/32	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-510.4	-876.1	362.8	-726.8	-80.5	-280.4	-6202.6	5629.3	-2068.2	2170.3	417.9	-126.2
RMS	967.4	214	-424.1	116.6	-311.7	18.7	944.3	1245.1	832.3	-153	70.9	5.6
1/2 P-P	1758.8	449.7	133.5	458.2	121.9	331.5	296.4	-236.9	-459.2	-11.5	-84.3	-243.6
		234.4	82.4	290.1	79.1	252.1	107.6	-77.9	-1098.9	-520.3	-218.1	-3.9
		278.5	-321.7	381.8	-196.3	316.9	168.2	-99	-502.1	8.2	-65.5	55.4
		31.8	105.2	0.3	118.9	9.1	14	-7.1	-70.9	25.3	1.8	12
		-12.8	-36.4	-181.7	-25.7	-223.8	-34.3	34.2	47.1	-1.6	11.2	6.8
		-49.4	16.7	-268.3	3	-334.8	27.8	159.1	-19.7	-172.4	6.1	-5

HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	582.7	-876.1	362.8	-726.8	-80.5	-280.4	-6202.6	5629.3	-2068.2	2170.3	417.9	-126.2
2nd	-462	214	-424.1	116.6	-311.7	18.7	944.3	1245.1	832.3	-153	70.9	5.6
3rd	127.6	449.7	133.5	458.2	121.9	331.5	296.4	-236.9	-459.2	-11.5	-84.3	-243.6
4th	41.8	234.4	82.4	290.1	79.1	252.1	107.6	-77.9	-1098.9	-520.3	-218.1	-3.9
5th	-313.4	278.5	-321.7	381.8	-196.3	316.9	168.2	-99	-502.1	8.2	-65.5	55.4
6th	44.1	31.8	105.2	0.3	118.9	9.1	14	-7.1	-70.9	25.3	1.8	12
7th	-0.7	-12.8	-36.4	-181.7	-25.7	-223.8	-34.3	34.2	47.1	-1.6	11.2	6.8
8th	21.5	-49.4	16.7	-268.3	3	-334.8	27.8	159.1	-19.7	-172.4	6.1	-5

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$
MEAN	-535.2	-741.1	-653.1	-6137.8	-2559.9	-517.4						
RMS	767.2	600.5	344.2	2790.8	1170	318.8						
1/2 P-P	1241.9	1011.8	702.6	5274.4	2053.2	507.7						
HARMONIC												
1st	COSINE 520.3	SINE -786.9	COSINE 303.8	SINE -605.9	COSINE -53.9	SINE -184.3	COSINE -3252	SINE 1553.3	COSINE -1331.2	SINE 802.8	COSINE 254.4	SINE -317.6
2nd	-102	397.9	-109.5	243.5	-145.3	19.6	835.4	1186.7	265.3	55.8	-50.9	182.6
3rd	177	116.3	203.3	153.5	192.6	105.2	-26.6	-155.3	260	78.5	-15.2	-25.8
4th	-145.4	45.1	-202.4	81.2	-169.1	121	61	-6.2	21.7	171.2	4.1	19.5
5th	-53	187.2	-67.2	210.7	-86.1	154.6	2.4	-83.6	-36.4	170.8	-3	7.4
6th	-5.1	-8.8	55.1	-13.9	83.3	-23.6	19	0.3	-2.7	-19.9	5.5	2.9
7th	2.1	-15.4	-12	-4.8	10.3	17	47.4	-16	-33.1	16.4	-0.5	6.3
8th	28.6	-13.2	52.7	-89.5	33.6	-82.7	3.5	84	-5.4	-92.7	-1.4	-1.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
14/9										
MEAN	-532.3		-3808.5		-394		-4529.2		-1540.8	
RMS	888.4		3396		922.6		3450.6		2899.8	
1/2 P-P	1857.9		6115.2		2066.1		6121.8		5020.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	437.9	490.8	-1545.8	-4261	-589.7	288	-1587.1	3704.9	-1279.4	2602.1
2nd	509.2	896.6	-832.2	-1198.9	-503	-958.1	1234.7	553.3	975.3	367
3rd	153.4	63.2	-178.8	78.3	114.2	-129.9	40.4	19	84.8	-94.5
4th	-42.7	-17.4	85.9	1.6	-45.6	-24	41.2	29.8	13.8	-40.1
5th	-68.1	-5.6	91.7	-12.1	1.3	-85	72	14	27	-50
6th	7.8	2.8	-37.8	-14.3	-2.9	-6.3	17.6	10.6	8.6	-44
7th	-7.8	-14.7	-0.2	-15.9	-10	13.6	28.4	-9.8	21.3	-18.7
8th	-6.7	20.3	-4.3	82.3	-2	15.4	78.7	-14.3	74.9	0.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
14/9										
MEAN	-1560.2		-517.5		-207.6		-5690.5		-584.8	
RMS	1596		355.8		809.1		2987.5		322.7	
1/2 P-P	2892.7		569.7		1700.6		5613.2		516.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	1921.4	-1042.4	-266.4	367.4	-156.2	-155.4	1272.7	3735.5	-268.4	52.2
2nd	225.3	140.9	-39.4	206.9	453.9	965	-689.9	-1177.7	-168.8	-22.6
3rd	-209.5	-122.3	9.5	43.1	-165.6	-149.8	196.2	-21.6	-19.7	-2
4th	-72.7	-89	14.5	21.2	-69.8	-29.1	39.3	1.2	4.5	2
5th	-7.6	-243.6	3.9	-1.1	89.9	-11.1	-125.4	15.6	2.7	-1.5
6th	-65.9	-66.1	5.3	1.4	7.9	1.5	-8.3	-8.7	-5.9	0.9
7th	-8.7	-38	-0.2	-7.4	13.5	12.4	30.6	14.2	-5.2	-0.4
8th	-0.1	-27.3	-1.8	-0.3	-2.7	30.1	-7.2	73.4	-2.1	-1.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
14/17												
MEAN	-414.1	-402.2	-120.9	-7515.4	-2782.3	-426.1						
RMS	677.4	565.1	362.1	1861.1	649.1	297.7						
1/2 P-P	1302.1	1259.4	924.9	3171.5	1277.7	485.6						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	364.3	-545.7	209.6	-389.7	2.6	-90.9	-2115.2	-1311.4	-744.9	-49.2	150.4	-350.9
3rd	173.7	441.7	157.5	268	47.1	19.1	93.5	770	20.6	-70.2	16.1	161.5
4th	385.9	100.5	409.9	180	329.6	152.3	-47	-150.4	164.6	123.3	2.5	-34.7
5th	-154.8	-86.5	-243.9	-68.7	-197.6	18.8	72.1	55.7	-253.2	-203.6	38.5	46
6th	-23	226.8	-32	213.8	-69.8	132.5	3.1	-110.6	-66.5	248.2	0.4	-4.3
7th	-10.1	-31.4	53.5	-16.1	78.4	-27.3	31.3	21.5	-29.7	-61.3	3	-1.3
8th	18.5	-24.4	-20.4	15.6	-5.7	53.9	-9.1	23.8	-3.5	-29.1	1.9	3.1
	38.2	28.6	85.8	54.8	57.5	77	-98.2	0.4	90.9	-11	1	3.5

RUN/POINT 14/17	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-4116.3	1729.1	837.3	-2831.7	-4052.7	272.4	-5720.3	1083.6	-2761.4	988.1	-1115.7	383.1
RMS	1512.8	1026.7	-114.6	-732.8	1682.9	-1091.8	2506.8	811.6	2035.9	606.9	1361.6	223.6
1/2 P-P	2928.5	321	-142.8	92.8	3149.7	-283	4100.3	157.6	3290.5	93.8	2230.1	-87.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	482.8	-84.3	104.7	73.9	-85.1	-103.3	66.5	23.8	14.7	-2.3	-181.5	-113.4
2nd	234.2	24.5	121.2	4	-9.8	-121	14.5	125.9	14.7	64.9	74.5	-190.7
3rd	296.1	8.4	20.9	-18.6	-10.2	-7.7	-9.6	-19.4	-1.2	-21.1	16.6	-26.9
4th	-78.2	-20.6	-11.3	15.6	-14.9	13.2	-34.4	13.1	-32.2	7.6	-21.7	2.4
5th	-104.8	-6.8	-94.2	5.6	-18.1	3.2	-83.2	13.7	-70.7	11.7	-32.1	3.5
6th	-0.1											
7th	-12											
8th	-23.5											
RUN/POINT 14/17	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1772.2	134.8	-170.4	407.9	-3714.3	-1260.6	-6998	2381.5	-473	-161	-120	-47.3
RMS	1016.5	25.8	347.5	187.5	1236.3	1046.7	1996.8	-762.9	303.5	-157.2	59.6	9
1/2 P-P	1860.1	-152.5	548.2	68.6	2485.2	-386.2	3389.7	-39.7	508	-5.9	100	-2.3
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1328	-142.4	34.2	65	-101.2	-98.2	65	15.4	48.7	-1.2	5.7	10.8
2nd	20.5	-323.6	-1.1	11.2	106.4	-37.8	-116.1	-23.8	-11.6	46	-1.1	-0.8
3rd	-102.7	-20.2	3.3	1.2	13.6	14.5	-13.7	8.6	-2.9	1.8	0.7	-0.3
4th	-286.6	4.1	-1.6	-3.1	13.3	21.9	-33.9	12.7	-2.1	2.4	-0.6	0.1
5th	63.9	-5.2	0.7	2.5	-57.4	-9.5	-85.8	7.3	4.2	3.9	0.6	-0.7
6th	35.5											
7th	25.9											
8th	34.7											

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/18						
MEAN	-2392.3	-1166.2	-231.3	213.5	176.7	-259.7
RMS	742	436	212.4	321.4	396.6	700.8
1/2 P-P	1260.3	761.2	427.5	603.3	736.2	1250.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-312.4	-250.6	31.9	-264.8	224.3	-395.3
2nd	-148.1	-896.8	-18	-97.9	18	245.3
3rd	-224.9	170.3	-2.7	-0.8	127.8	-83
4th	-66.3	-51.1	14.8	14.7	87.5	240.6
5th	-14.3	55.5	29.1	-29.2	41.8	50.3
6th	-11.1	-8.4	13	46.2	38.5	45.9
7th	21.8	-10.4	-5.4	19.9	-73.2	-89.4
8th	-10.3	13	18	-22.9	22.1	22.7
				13.2	-28.2	12.4
				-10.1	22.6	-14.9
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/18						
MEAN	-447.3	-527.7	-360.3	-6878.4	-2729.2	-460.5
RMS	646.8	522.1	322.3	998.9	634.4	278.8
1/2 P-P	1164.3	1057.4	795.7	1949	1456.2	452.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	396.3	-610.5	-8.2	-119.1	-617.1	183.2
2nd	-13.9	386.1	-19.9	32.9	91.7	-48.3
3rd	214.3	157.5	205.5	167.8	190.9	109.5
4th	-159.2	-35.3	-204.7	49.1	-187.5	-8.7
5th	-92	159.6	-116.8	109.7	-92.4	168.4
6th	-24.4	-29.9	62.6	1.3	4.8	-6.1
7th	15.8	-23	7.7	-7.7	0	1.9
8th	24.2	3.9	25	-53.9	49.3	-25.2
				19.7	0.4	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
14/18												
MEAN	-2601.8	-4616.2	-2501.6	-5224.1	-2267.4	-947.9						
RMS	809.5	1537.1	864.5	1743	1444.8	1045						
1/2 P-P	1537.1	2811.8	1835	3130.7	2498.4	1912.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	505.6	366.4	311.4	-1946.2	-543.2	329.5	2180.9	559.2	1824.7	516.2	1380.3	34.4
2nd	172.1	888.5	-238.6	-813.8	-155.7	-963.1	198.4	911.6	142.2	693.2	120.4	245.8
3rd	180.5	174.1	-135.7	79.3	219.5	-192.4	71.1	161.6	49.8	97.2	-59.7	-87
4th	-57.7	-48.5	75	3.8	-74.7	-69.5	45.6	33.1	20.4	24.5	-71.2	-0.8
5th	-86.1	-16	97.4	-14.6	18.9	-115.7	7.4	125.3	14.3	61.5	100.6	-184.7
6th	15.3	8.2	-8.1	8.2	-24.8	-17.3	36.1	-0.1	31.2	-8.6	-15.1	-41.2
7th	-7.6	-18.3	17	32.7	-22	17.5	16.1	23.8	7.4	17.2	-17.9	-4.1
8th	-3.4	15.4	-48.2	30.9	-8.1	1.1	-45	27.1	-39.3	25.3	-18.1	18.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
14/18												
MEAN	-1761.2	-460.2	-2279.1	-6289.6	-515.9	-111.9						
RMS	884.8	320.7	742.4	1198.9	283.7	46.5						
1/2 P-P	1894.3	519.8	1387.8	2303.7	464.3	82.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1063.2	-144.1	-198.2	366.8	-228.4	19.8	-669.8	1256.9	-316.5	-194.2	40.9	-47.9
2nd	84.7	29.6	-17.2	163.8	135.4	933.1	-189.4	-809.7	25.6	-139.8	-12.4	10.5
3rd	-147.6	-146.5	2.7	43.3	-201.4	-259.8	179	-32.5	28.9	-4.9	-1.2	-2.2
4th	-111.9	-6.6	19.2	44.4	-81	-64.7	63	33.3	20.6	33.9	2.5	7.7
5th	106.1	-318.7	4.7	2.8	99.6	-2.3	-108.8	-15.7	-4.2	3	-1.8	-0.3
6th	-37.9	-47.5	2.9	-2.3	9.7	11.9	-17	-28.4	-3	0.9	0.7	-0.1
7th	-11	-9	-1.7	-3.7	9.5	19.5	-8.2	29.9	-3.3	0.7	-0.2	0.4
8th	17.5	-6.6	-0.1	2.1	-17.3	-2.4	-42.9	18.7	0.5	2.6	-0.5	-1.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-1382.7		-3791.3		-1266.7		-4414.1		-1519.3		-671.3	
RMS	838.9		2653.4		876.2		2761.8		2304.9		1648.9	
1/2 P-P	1598.5		4733.9		1802.3		4798		3874.5		2860.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	525.1	580.9	-646.7	-3507.3	-700.7	343.5	3695.3	-440.3	3110.3	-314.6	2167.5	-554.9
2nd	226	842.7	-416.4	-1000.5	-210.5	-914.5	325.4	1081.9	243.7	844.4	189	329.3
3rd	-2.9	86.7	-118.3	48	121.2	-3.9	39.4	114	33.3	63.9	-31.5	-114.4
4th	-21.9	-27.6	120.3	13.5	-31	-41	43.6	24	-12.8	-11.1	-255.7	-173.6
5th	-114.7	3.9	139.2	5.3	2.1	-134.3	18	128.4	8.9	57.7	39.8	-225.1
6th	5.5	2.8	-16.5	-9	-8.9	-7.1	21.5	4.3	15.3	-4	-38.7	-36.2
7th	-1.2	-15.2	13.7	31.8	-15.5	4.8	14.6	37.7	4.4	22.6	-17.7	-12.7
8th	-8.7	15.6	-33.2	53.9	2.5	13.8	-27.1	42.4	-26	40.6	-9.9	23.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1691.7		-501		-1065.5		-5524.1		-563		-109.4	
RMS	1314.2		327.8		697.7		2128.2		292		50.7	
1/2 P-P	2672		534.7		1405		3825		480.9		90.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1586.1	-600.3	-231.5	352.9	-247.1	-173.5	255.2	2804.3	-300.9	-230.2	50.2	-44.6
2nd	133.3	99.8	-49.3	175.5	175.7	889.2	-323.5	-948.3	64.9	-142.7	-20	12.7
3rd	-104.2	-173.3	15.5	39.5	-11.4	-166.8	144.8	-8.7	33	-15.1	-3.1	-1.8
4th	-396.3	-219.8	13	35.7	-45.2	-41	35.9	-4	7.5	28.1	1.1	6.8
5th	19.6	-364.2	-1	2.5	133.7	-11.8	-151.1	-18.8	-1.4	-0.8	-0.6	0.6
6th	-39.8	-41.9	4	2.2	4.2	0.1	-13.1	-10.5	-4.5	-3.2	0.7	-0.1
7th	-7.7	-29.1	0.1	-5.6	6.9	16.1	0.2	17.6	-3.1	-2	-0.4	0.7
8th	8.8	-13	-1.1	-0.7	-8.4	14.4	-22.3	44.8	-0.1	-0.5	-0.5	-2.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-408.8		63.7		280.7		460.2		375.2		-47.6	
RMS	671.4		391.6		236.9		355		431.8		754.9	
1/2 P-P	1313.3		745.7		444.3		658.9		751.5		1308.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	188.7	-79.2	130.1	-126.2	171.8	-248.6	224.5	-379	272.5	-445.8	569.9	-751.9
2nd	-223.8	-882.4	-112	-503	-47.4	-90	-7.3	167.8	-0.7	254.9	-136.4	446.6
3rd	-69.1	28.3	-31.6	9	6.3	-15.5	45.9	-36.8	67.9	-39.6	100	131.2
4th	-30.7	-29.6	-5.4	-14.2	18.4	9.1	32.8	21.8	37.4	25	-8.5	15.2
5th	-46.8	66.3	-7.9	23.1	48.8	-27.9	90.9	-77.2	98.8	-95.4	-38.8	11.1
6th	6.6	-6.7	7	-0.7	6.7	7.8	3.7	14	4.1	11	-18	-8.4
7th	20.6	-5.2	5.6	-3.1	-19	-1.7	-42.2	0.1	-46.1	2.1	40.2	27.8
8th	1.6	17.4	6.5	4.8	14	-13.1	15.3	-26.6	8.9	-29.6	-23.7	38.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-450.3		-676		-631.9		-5981		-2510.8		-504.6	
RMS	724.8		579.2		343.6		2852.8		1143.8		296.8	
1/2 P-P	1232.8		1075.8		746.9		4964.8		2245.3		484.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	470.2	-740.6	262.9	-570.2	-68.5	-185.3	-3797.1	614.1	-1355.6	657	235.3	-298.1
2nd	-127	336.1	-103.7	198.8	-92.1	8.4	374.6	1084.6	184.1	75.8	-78	154.2
3rd	74.1	238.5	93.4	270.4	109.6	194.5	-13.2	-132.5	105.5	120.7	-17.2	-26.3
4th	-139.7	21.9	-200.2	49	-174.4	83.7	30.3	10.5	-118.7	-253.3	2.5	28.8
5th	-176.6	165	-201	189.8	-161.8	137.5	55.1	-95.1	-204.7	154.1	-0.8	11
6th	5.2	-12.8	57.6	-3.6	79.6	1.4	-4.6	36.6	10.1	-64.7	2.7	2.7
7th	5.8	-15.1	-31.6	-24	-22.9	-5.4	26	-14.4	-33.7	-1.6	-2.4	4.3
8th	14.1	-6.7	3.5	-74.9	-19.8	-80.6	1.7	63	-13.2	-79.4	0.2	-1.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-616.8		-3697.2		-560.1		-4054.4		-1131.9		-246.2	
RMS	950.6		3687.7		1012.8		3755.4		3134.6		2159.2	
1/2 P-P	1895		6107.5		2042.4		6101.3		5017.3		3631.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	382.2	915.8	-771.4	-4983.7	-1029.5	203.7	5083.7	-761.4	4268.9	-581.7	2879.1	-773.6
2nd	253.5	850.4	-412	-1193.5	-245.5	-923.1	308.9	1242.8	224.1	976.9	177.4	411.2
3rd	26.5	18.8	-139.2	46.2	60.3	-36.1	32.1	140.1	29.7	92.8	-13	-66.3
4th	-25.6	-14.5	128	29.5	-34.3	-29.4	69.4	27.5	23.7	-20.2	-176.3	-263.9
5th	-88.9	-62.5	87	72.8	51.6	-94.7	-31.8	124.6	-7.8	64.6	144.2	-161.8
6th	-2	2.2	4.9	-32.2	-2.7	-7.8	5.9	43.4	3.8	23.8	-20.7	-46.4
7th	-5.2	-26.8	14.8	-21.9	-20.5	6.2	-27.8	-17.3	-23.4	-24.6	-16.9	-37.2
8th	-2.7	27.2	14.7	69	-6.1	24.1	9.8	66.6	6.6	66.4	16.2	34.2
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1423.6		-510.5		-327.9		-5337.9		-574.1		-102.5	
RMS	1646.6		333.5		770		3225.4		301.2		51.9	
1/2 P-P	2950.7		543		1609.1		5390.1		491.1		92.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2062.4	-809.7	-247	349.2	-121.6	-547	454.3	4372.8	-300.4	-248.4	55.8	-38.2
2nd	119.6	165.2	-62.5	179.5	193.2	887.8	-299.9	-1111.3	84.6	-140.1	-24.3	13.5
3rd	-83.8	-111.9	13.5	43.9	-45.7	-110.7	143.4	10.6	38.1	-18.8	-2.9	-1.2
4th	-305.5	-354.6	15.2	28.5	-41.9	-29.5	29.1	21.5	3.5	24.1	1	6
5th	190.7	-295.6	-1.7	-1.1	95.6	45.5	-102.5	-83.6	5.7	1	-1	2.4
6th	-23.9	-71.1	2.5	3.3	-1.8	13	-8.7	-22.9	-2.9	-3.1	0.5	0
7th	19	-2.5	2.3	-5	10.3	24	-0.6	-12.7	-1.3	-3.3	0.3	0.4
8th	2.9	-27	0.2	-2.1	-7.2	25.4	-5.4	63.3	0.7	-2.7	-1	-1.1

RUN/POINT 15/9	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	145.5	-306.7	552.6	-261.5	356.9	-323	298	-430.6	326.4	-496.9	619.6	-794.1
RMS	987.9	-888.5	-273.6	-507.1	-104.4	-84.2	-6.2	178.5	15.4	266.7	-114.4	449
1/2 P-P	2042.8	-4.4	-41.4	-10.6	3	-18.5	47	-32.1	70.1	-33.3	116.5	163.1
		-25.1	-8.4	-10.7	10.9	12	21	21.4	23.2	23.2	-15.7	9.4
		91.1	-16.5	34.6	50.2	-32.9	98.2	-97.2	105.2	-120.5	-30.7	10.1
		-0.8	6.3	5.3	6	13.8	1.3	18.2	0.6	13.2	-16.6	-9.6
		8.2	8.6	2.1	-12.8	-9.6	-36.3	-18.4	-43.3	-16.9	33.7	47.4
		-10.4	2.5	0.3	16.9	16.2	22.4	28	17.1	21.4	-17	-22.7
RUN/POINT 15/9	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-487.2	-763.6	280	-576.8	-98.3	-172.8	-6192.1	1796.9	-1916.8	925.5	270.5	-300.3
RMS	762	603	-178.2	180.5	-191.6	-11.3	766.1	1435.2	255.4	158.3	-85.3	172.9
1/2 P-P	1334.9	1149.5	129.4	259.5	124.3	174.6	10.7	-231.7	85.2	80.4	-20.4	-23.9
			-176.2	52.5	-157	82.8	63.2	-2.3	-213.7	-23.2	4.3	36.2
			-216.6	248.9	-173.6	179.6	17.5	-93.5	-168.6	157.1	-3.9	13
			60.7	-4.2	77.7	2.6	-1	26	8.9	-52.4	3.1	2.2
			-30.8	-36.2	-23.4	-17.3	18.5	31.1	-22.2	-36.5	-2.7	1.2
			16.2	3.1	-12.1	6.1	-90.5	4.9	90.8	-22.6	0.1	-0.2
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	513.1	-763.6	280	-576.8	-98.3	-172.8	-6192.1	1796.9	-1916.8	925.5	270.5	-300.3
2nd	-163.9	322.2	-178.2	180.5	-191.6	-11.3	766.1	1435.2	255.4	158.3	-85.3	172.9
3rd	115.7	245.5	129.4	259.5	124.3	174.6	10.7	-231.7	85.2	80.4	-20.4	-23.9
4th	-129.5	30.1	-176.2	52.5	-157	82.8	63.2	-2.3	-213.7	-23.2	4.3	36.2
5th	-188.8	204.8	-216.6	248.9	-173.6	179.6	17.5	-93.5	-168.6	157.1	-3.9	13
6th	15.8	-12.8	60.7	-4.2	77.7	2.6	-1	26	8.9	-52.4	3.1	2.2
7th	2.7	-13.1	-30.8	-36.2	-23.4	-17.3	18.5	31.1	-22.2	-36.5	-2.7	1.2
8th	17	6.2	16.2	3.1	-12.1	6.1	-90.5	4.9	90.8	-22.6	0.1	-0.2

[illegible]

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	1476.8		-2111.9		1579.2		-2701.6		105.1		74.8	
RMS	726.7		5966.4		749.4		5638.8		4799.2		3390.9	
1/2 P-P	1311		9001.5		1283.8		8353.1		7145.8		5921.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	488.8	120.1	-5299.6	-6300.1	-217.9	209.1	5579.8	-5377.2	4846.6	-4505.6	3297.7	-3280.4
2nd	459.3	737.3	-1223.9	-1322.8	-500.7	-858.4	1202.8	1403.2	959.1	1123.8	683	439.1
3rd	-107.7	-91.8	-196.8	-121.5	-58.3	112.6	-71.1	228.8	-30.5	168.3	133.8	-38.3
4th	23.7	43	118.9	42.2	27.7	31.9	59	17.2	17.1	-107	-210.8	-693.7
5th	-30.2	-70	43.7	37.2	79.9	-59.4	-3.5	18.2	26.6	10.5	157.6	-13.1
6th	4	-12.6	-20.4	-16.9	-5.8	1.6	37.5	-3.9	27.6	-5.1	-39.6	-26.6
7th	-4.2	-32.4	-14.8	16.2	-35.3	2.7	-24.5	55.3	-24.2	31.4	-5.2	-32.5
8th	24.2	25.9	0.4	-6.9	3.5	9.2	14.1	-1.6	10.8	5.9	6.4	22.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1382.2		-566.4		1713.6		-3952.1		-652		-87.1	
RMS	2667.6		389.6		677.4		5623.4		356.6		42.7	
1/2 P-P	5133.7		654.7		1264.3		8483		623.3		81.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2383.3	-2642.4	-378.5	336.9	-263.8	147.4	5241.4	5701.5	-276.5	-374.6	47.3	-19.1
2nd	514.3	142.7	-49.4	178.3	428.7	779.5	-1153.4	-1323.7	86.9	-127.8	-20.3	13.1
3rd	170.7	-92	72.2	52.3	76.6	11.5	197.7	158.9	53.5	-61.6	-12.7	-10.2
4th	-404.6	-941.3	-50.2	32.8	8.7	21.9	10.2	-28.9	-68.9	28.2	-12.1	2.6
5th	198.1	-12	-1	-17.3	71.8	53.4	-62	-33	20.5	-1.6	-1.3	6.1
6th	-69.2	-19.4	9.1	5.4	2	-8.9	-5.7	-13.8	-7.4	-9.5	1.2	1
7th	32.7	-56.8	-0.2	-7.8	8.9	31.2	-0.9	18.1	-7.2	-3.8	-0.4	0.7
8th	-9.3	14.5	-2	-1.3	-0.2	11.1	-4.2	-7	-2	-0.8	0.2	-1.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2214.1		1695.6		932.6		752.7		606.7		207.1	
RMS	882.8		511.1		282.8		391.5		482.6		883	
1/2 P-P	1563.9		867.6		577.6		706.3		865.2		1561.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	287.7	96.9	182	2.5	229.6	-234.2	270.3	-416.7	325.7	-510.7	645.5	-916.1
2nd	-803.1	-845.9	-465.1	-486.5	-185.6	-74.8	-40.2	178.1	-5.7	261	-231.5	366.7
3rd	83	-240.2	57.4	-142.1	5	-48.6	-11.2	-1.1	-12.9	22.3	-32.4	317.6
4th	8.9	21.7	8.2	8.1	-3.6	-3.1	-14.3	-18.9	-18.4	-24.7	-33.4	-35.8
5th	-19.7	102.8	-0.7	44	33.1	-32.5	46.4	-104.3	41.7	-127.9	-23.9	22.8
6th	4.1	8.2	2.4	6.4	0.3	5.5	-2.5	-2.2	-1.5	-12	-29.2	-2
7th	19.7	5.8	6.4	0.8	-14.9	-8	-37.8	-14.4	-43.4	-11.6	39.2	43.4
8th	-5.4	26.8	6.3	8.3	26.1	-17.6	33.8	-41.3	22.5	-46.5	-45.9	50.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-417.8		-813.5		-923		-2980.1		-2273.3		-587.9	
RMS	920.3		774.8		492.6		7101		2626.8		377.9	
1/2 P-P	1513.6		1462.4		1254.8		10816.8		5530.7		682.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	584.3	-941	320.8	-767.9	-126.7	-305.9	6448	-2240.2	2434.3	430.5	-237.7	
2nd	-461.9	215.8	-493.4	87.5	-426.5	-56	1668.4	701.9	111.7	-18.2	143.3	
3rd	2.6	323.8	13.2	291.7	42	169	-258.8	-450.4	131.3	-101.9	-47.4	
4th	-56.8	157.5	-63.8	194.6	-69.8	172.2	-15.1	-745.8	-1116.5	-38.3	58.5	
5th	-73.4	207.2	-68.3	276.3	-43.8	208.8	-96.1	-109.7	70	11.9	-0.2	
6th	40.7	21.7	90.8	11.2	107.2	1.7	36.6	-42	10.4	-5.8	5.3	
7th	-0.3	-7.6	-9.9	-54	-1.8	-64.5	-14.9	-14.7	11.4	-1.6	7.6	
8th	18.1	-23.1	19.8	-94.8	5	-109.5	49	18.9	-62.8	-0.4	-0.1	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	2091.5	-853.1	2259.2	-1613.7	1055.9	427.6						
RMS	1152.6	7741.5	1182.2	6880.3	5840.3	4128						
1/2 P-P	2157.6	11656.7	2105.3	10257.3	8726.7	7117.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	291.9	1160.2	-8555	-1156.5	-33.7	7158.1	-6193.5	6149	-5210	4136.5	-3822.4	
2nd	715.1	766.9	-1509.5	-1726.7	-761	1369.7	1743.3	1076.1	1406.5	775.4	569.2	
3rd	-258.2	-135.7	-293.9	-145.4	-81.7	259.5	243.4	114.5	195.3	389.2	-35.7	
4th	19.7	46.7	265.9	126.2	21.7	30.6	114.7	-17.4	-118.5	-610.3	-840.8	
5th	-93.8	-32.1	54.3	29	54.5	-128.1	-70.9	81.5	34.7	80.9	-122.1	
6th	-2.5	-12.5	-33.8	-44.7	7.6	0.6	-8.3	-14.7	-3	-72.5	-38.6	
7th	2	-24.8	-63	-25.3	-20.3	-1.1	5.4	2.9	24.2	3.6	-45.5	
8th	0.9	26.1	-16.6	61.3	-9.8	20.8	53.4	-2.9	58.5	-6.9	63.9	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 4, r/R=0.400		Blade 1	
MEAN	-1223.3	-577.8	2349.3	-2795.8	-673.8	-83.4						
RMS	3284.9	410.4	981.1	7780.1	379.3	52.2						
1/2 P-P	6157.6	717.1	1822.5	11628.2	681.1	94.5						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 4, r/R=0.400		Blade 1	
1st	2938.4	-3130	-434.3	309.9	-128.6	-841	6323	8692.7	-255.1	-423.2	63.8	5.7
2nd	600.4	204.3	-27.1	173	663	819.4	-1426.2	-1816.7	65.6	-135.9	-25	17.1
3rd	488.9	-125	107	59.6	226.4	48	204.7	195.6	81.2	-72.3	-9.7	-9.1
4th	-970.5	-1120.1	-47.6	44.7	-2.5	22.2	102.7	18.7	-70.2	26.3	-8.5	6.5
5th	122.4	-175.6	3.7	-2.1	118.7	16.5	-70.8	-3.7	7.4	6.8	1.7	0.3
6th	-70.2	-27.4	-3.7	7.1	1.1	-9.2	-10	-21.5	3.1	-11.5	-0.6	-0.7
7th	13.6	-72	-1.7	-9.9	-1.9	22.9	31.4	62.9	-7.6	-1.7	0.4	0.9
8th	-6	2.7	0.6	-2.7	-10.4	33.4	-26.9	52.7	1.3	-3.3	-2	1.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-3741.7		-1985.1		-560.2		0		100.4		-245.2	
RMS	859.4		524		275		0		374.1		648.2	
1/2 P-P	1738.4		1024.6		481.4		0		784.7		1140.7	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	660.9	-337	424.6	-264.1	256.6	-251.4	0	0	242.7	-335.5	426.8	-580
2nd	-180.8	-871	-80.7	-503.4	-7.1	-106.6	0	0	69.3	216	67.5	476.7
3rd	-209.7	235.3	-117.6	127.1	-9.3	13.5	0	0	119.6	-93.9	275.4	-70.8
4th	-89.4	-61.5	-38.3	-34.2	16.5	8.7	0	0	66.3	48.4	20.5	41
5th	0.5	81.1	6.3	27.1	20.3	-39.2	0	0	26.6	-121.2	-28	17.5
6th	-11.4	-17.7	-0.7	-7	10.9	8.1	0	0	20.5	24.9	-16.5	-17.9
7th	14.6	-14.9	5.7	-6.6	-8.8	4.5	0	0	-24.7	13.7	24.1	2
8th	-30.9	-20.1	-1.8	-2	35.8	26.6	0	0	57	43.6	-55.7	-66.9
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-329.2		-357.2		-155.3		-7372.2		-2470.7		-431.8	
RMS	605.9		503.8		321		1606.9		624.8		276.9	
1/2 P-P	1199.1		1132.5		853.8		2756.6		1549.6		448.5	
HARMONIC	COSINE		COSINE		COSINE		COSINE		COSINE		COSINE	
	SINE		SINE		SINE		SINE		SINE		SINE	
1st	309.2	-556	173.9	-402	-6.2	-100.7	-885.2	87.6	-636.7	135.6	-332.6	
2nd	141	366.6	129.3	223.7	48.5	17.9	738.8	-63.1	-9.2	13	143.4	
3rd	280.9	76.1	309.5	136.8	261.6	114.5	-133.7	102.5	124	-2.4	-37.1	
4th	-155.4	-50.7	-231.2	-28.1	-182.1	38.2	54.5	-279	-145.3	31.9	28.6	
5th	-56.2	210.8	-71.2	219.1	-85.2	150.1	-117.4	263.2	-146	-2.6	3.1	
6th	-21.9	-33.6	26.6	-30.5	51.6	-36.5	32.9	-65.7	-47.6	-0.7	-1.6	
7th	7.8	-22.2	-17.5	9.2	-0.2	37.3	-17.3	13	5.7	1.6	1.5	
8th	35	20	86.6	50.4	69.2	73.2	-96.1	-34	86.8	2.7	2.9	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
35/21												
MEAN	-3947		-5018.4		-3934.9		-5610.4		-2602.3		-882.2	
RMS	1258.5		2139.4		1386		2498		2033		1318.9	
1/2 P-P	2373.4		3705.7		2615.5		4144.2		3325.4		2261.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	595.2	1363.6	612.2	-2835.9	-1605.2	447.9	3289.8	896.1	2661.2	833.8	1768.3	293.8
2nd	250	874.6	-197.1	-749.3	-211.6	-930.7	171.7	819.3	116.6	624.8	53.9	234.2
3rd	239.4	172	-107.6	125.3	216.9	-239.1	119.2	131	87.8	85.4	-58	-60.4
4th	-76.4	-64.4	64.5	41.8	-91.3	-82.3	67.2	27.5	31.1	-2.8	-106.9	-186.1
5th	-106.9	9.1	126.8	17.9	-9.9	-129.2	-19.5	161.2	-9.4	78.5	103.7	-259.1
6th	1.6	14.4	8.7	-26.3	-14.4	-5.1	-3.1	4	-1.4	-3.7	-4.1	-40.3
7th	-10.6	-22.6	-25.7	-36.2	-11.7	19.4	-28.7	-34.1	-24.3	-30.5	-16.7	-12.6
8th	-41.6	-9.6	-101.2	21.4	-18.5	8.1	-102.2	22.4	-84.1	14.7	-46.2	15.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
35/21												
MEAN	-1465.9		-436.2		0		-6766.2		-482.1		-98.1	
RMS	986.5		329.7		0		1931.3		288		53.1	
1/2 P-P	1983.5		517		0		3226.3		477.1		90.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1235	63.3	-157.4	392.5	0	0	-953.5	2420.7	-342.4	-149.7	54.3	-48.7
2nd	15	44.6	17	171.8	0	0	-137.9	-736.8	-8.4	-146.4	-7	12.7
3rd	-129.2	-99	13.2	67	0	0	144.6	-67.5	37.7	-12.5	0.6	-3.1
4th	-176.4	-222.9	37	50.1	0	0	73.3	38.7	43	32.1	6.3	6.8
5th	130.3	-436.6	0.1	2.6	0	0	-125.7	-44.6	-3.4	3	-0.6	2
6th	8.2	-49.5	1.6	0.6	0	0	-18.3	27.6	-0.1	2.9	-0.1	-0.7
7th	9.3	25.2	-2.2	-2	0	0	-21.3	-18.4	-1.7	2.8	-1	-1.6
8th	41.6	-8.2	2.8	2.6	0	0	-90.9	23.7	4.3	3	0.4	-0.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2204.4		-1033.6		-175.5		0		209.6		-187.5	
RMS	715.4		407.2		170.8		0		364.8		649.7	
1/2 P-P	1325.2		740.2		365.8		0		714.1		1154.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-428.7	-7.6	-241.6	-79.3	-12.4	-203.2	0	0	187.7	-377.7	441.2	-630.2
2nd	-376.7	-791.2	-200.3	-454.8	-58.1	-81.8	0	0	52.8	224.4	16.8	444.4
3rd	-190.1	91.9	-104.2	43.2	-10.9	-6.2	0	0	97.8	-57.3	220.4	44.4
4th	-79.7	-40.6	-35.2	-22.1	11.4	8.8	0	0	51.5	31.1	11.3	34.7
5th	3.7	70.9	7.3	23.6	18.6	-33.9	0	0	14.6	-107	-27	20.1
6th	-8.7	-12.7	-1.5	-3.4	7.4	10.6	0	0	11.1	20.8	-14.6	-12.5
7th	12.1	-11	4.4	-4.2	-9	5.4	0	0	-28.4	12.4	24.8	4.9
8th	-19.3	12.7	0.6	4.7	27.1	-6	0	0	33.3	-14.7	-50.9	8.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-412.1		-523.2		-388.3		-6556.8		-2337.8		-477.9	
RMS	609.4		487.5		282.2		853.3		652.5		276.6	
1/2 P-P	1136.3		983.5		714.1		1856.6		1573.1		460.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	354.1	-598.2	208.8	-439.3	-15.2	-119	-670.4	-368.3	-529.4	286.8	168.1	-317.7
2nd	29.9	344.8	16.4	215.9	-38.8	31.5	481.3	701	93.3	-59.1	-12.6	146.2
3rd	229.3	155.7	248.7	191.5	205.8	140.6	-46.5	-132.1	137.8	95	-12.5	-18.1
4th	-125.2	-5.7	-184.1	18.2	-149.7	61.4	74	55	-426.1	-165.4	27.1	28.9
5th	-29.3	185.8	-31.5	196.3	-46	137.3	10.7	-112.8	-90	242.4	-2.5	5
6th	-5.7	-21.7	42.6	-22.6	62	-26.3	19.6	7.6	-16.4	-35.7	0.2	-1.6
7th	7.9	-16.5	-14.8	0.8	1.1	18.8	25.4	-0.1	-28.6	-2.6	0.8	1.7
8th	26.8	-0.7	54.4	-39.7	40.1	-31.6	-43.5	113.7	33.1	-118.2	1.3	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
35/22												
MEAN	-2382.1		-4148.4		-2326.3		-4736.4		-1780.4		-525.3	
RMS	698.4		1457.5		741.1		1688.3		1395.8		998.6	
1/2 P-P	1400.3		2791.3		1527.2		3069.9		2451.1		1921	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	264.2		248.4		-1797.5		151.9		2105		507.4	
2nd	441.9		769.8		-743.2		-822.3		483.4		800.9	
3rd	91.4		137.9		88.5		-113		84.6		129.4	
4th	-59.9		-30.1		2.9		-76.2		63.4		-14.2	
5th	-84.7		21		-9.9		-106.6		13.7		142.9	
6th	-1.3		13.8		-9.6		-13.2		3.4		9.2	
7th	-6.7		-20.2		-6.5		13.1		19.6		-14.2	
8th	-29.1		12.3		112.9		15.3		-54.8		111.2	
									-51.8		94.2	
									-36.4		55.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
35/22												
MEAN	-1314.2		-476.4		0		-6029.1		-537.2		-91.5	
RMS	867.6		316.8		0		1125.4		281.7		41.1	
1/2 P-P	1860		517.4		0		2205.7		471.6		75.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	984.9		-181.5		368.8		0		-590.7		1161.4	
2nd	116.9		32.8		165.2		0		-431.1		-716.3	
3rd	-81		-90.7		34.3		0		158.7		-43.5	
4th	-459		-13		38.6		0		57		8.7	
5th	-5.2		-373		1.1		0		-117.2		-9.5	
6th	-17.2		-57.1		1.9		0		-11.3		-5.4	
7th	-24.3		12.6		-0.2		0		18.6		-14.6	
8th	17.5		-35.7		1.3		0		-44		106	

RUN/POINT 35/23	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-797.7	-156.5	193.9	0	356	-34						
RMS	640.6	364.4	178.8	0	387.2	707						
1/2 P-P	1122.4	659.5	369.4	0	706.9	1251.1						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-289.3	-12.7	-160.2	-77	36.7	-217.6	0	219	-417.4	483.1	-735.9
	2nd	-246	-808.8	-125.3	-460.4	-45.2	-78	0	20.7	235.9	-97.1	434.3
	3rd	-60	-17.4	-29.4	-16.1	-0.6	-20.4	0	48.3	-30	99.7	119.8
	4th	-38	-19.8	-11.4	-10.1	15.3	7.7	0	36.6	16.7	-4.9	15.6
	5th	-10.9	63.5	3	21.5	25.6	-28.4	0	35.8	-93.9	-25.9	15.2
	6th	-2.3	-8.7	1.6	-1.6	6.5	9	0	7.9	15.4	-15.5	-8.3
	7th	15.5	-9.8	6.1	-5.9	-10.6	-0.6	0	-31.6	6.7	30.8	12.1
	8th	-0.8	-0.1	2.8	0.1	6.3	-1.1	0	-0.6	-0.3	-5.8	6.7
RUN/POINT 35/23	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-389.5	-619.2	-588.5	-5393.9	-2294.1	-516.6						
RMS	688.7	543.6	296.5	1857.9	964.6	293.2						
1/2 P-P	1161.6	1014.4	694.4	3417.9	2481.4	487.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	400.7	-738.8	225.5	-569.5	-57.3	-180.9	1148.3	-883.6	823	217	-306.4
	2nd	-114.6	335.9	-101.2	207.9	-87.6	26.5	901.6	151.1	-31.2	-65.6	156.1
	3rd	105	221.8	126.1	242.5	130.4	160.1	-97.6	58.2	105.6	-16.2	-28.4
	4th	-115	38.9	-161.6	68.5	-136	93.4	51.4	-201.5	-282.5	4.1	27
	5th	-68.9	157.5	-70.5	181.3	-62.1	134.1	-73	-135.1	140	-0.4	8.6
	6th	4	-18.3	47.3	-18.7	70.3	13.5	1.7	-7.1	-18.9	2.7	1.7
	7th	7.5	-13.2	-17.7	-12.6	-5.3	-2.6	3.1	-21.5	-2.6	-0.9	-0.5
	8th	13	-0.8	0.7	-22	-20.7	-16.4	41.9	52.6	-54.2	0.1	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-954.9	-2970.5	-870.3	-3568.6	-737.6	-126.1						
RMS	697.5	2678.3	735	2730.4	2282.2	1620.6						
1/2 P-P	1352.7	4674.8	1457	4572.4	3706.8	2787.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1		Pitch Link, lb	
1st	287.6	398.2	-1154.5	-3402.9	-471.7	155.9	-966.3	2992	-780.5	2038.5	-879.2	
2nd	317.5	781.1	-525	-1002.6	-295.8	-847.7	1051.2	330.6	819.4	211.4	304.8	
3rd	-27.1	10.5	-100	70.7	54.9	7.2	34.3	24.8	45.8	-35.2	-97.5	
4th	-23.5	-11.4	100.3	-2.5	-38.7	-25.5	44.2	8.9	-28.4	-173.6	-132	
5th	-73.6	-13.6	72.6	17.9	-3.5	-102.6	-16.8	-12.2	50.2	54.9	-173	
6th	2.4	14.6	-19	-18	-3.7	-12.4	4.4	-3.8	12.9	-42.5	-40.6	
7th	1.9	-16.9	12.2	-11.3	-12	12.2	7.6	4.4	-0.4	-16.2	-21.6	
8th	-7.7	-6.1	-54.9	39.2	0	7.3	-69.7	-58.5	26.7	-36.5	23.4	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1		Pitch Link, lb	
MEAN	-1204.9	-514.9	0	-4909.5	0	-85.8						
RMS	1285.5	331.3	0	2214.5	297.3	44.3						
1/2 P-P	2422.3	534.8	0	3872.9	486.1	82.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1		Pitch Link, lb	
1st	1477.3	-872.8	-232.4	355.2	0	914	-305.6	-232.4	39.2	-40.1		
2nd	131.5	73.7	-48.3	182.6	0	-408.7	68.2	-148.3	-21.2	16.8		
3rd	-98.3	-124.9	22.2	44.6	0	117.4	35.4	-25.1	-1.8	-3.5		
4th	-262.9	-137.3	16	27.3	0	36.3	8.4	24.5	1.7	5.5		
5th	77.8	-289.8	0.6	-4.1	0	-96.8	5.5	1.2	-0.5	2.1		
6th	-36.2	-60.1	1.9	0.7	0	-4.9	-3	-0.9	0.2	-0.1		
7th	-14.7	-5.9	-0.1	-1.9	0	23.4	-0.9	0	-1.6	-1.3		
8th	21.4	-5.2	0.3	0.8	0	-48.6	-0.2	0.3	-0.4	-1		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb			
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
MEAN	-389.6	-637.9	-624	-4684.3	-2185.8	-524.4						
RMS	665.5	518.3	283.4	2936.8	1184.8	296.8						
1/2 P-P	1086.3	1009.6	653	4941.7	2312.7	497.1						
HARMONIC												
1st	COSINE 405.1	SINE -697.7	COSINE 221	SINE -534	COSINE -77.9	SINE -170.6	COSINE -3628.8	SINE 1586.9	COSINE -1200.5	SINE 897.2	COSINE 231.9	SINE -296.5
2nd	-105.2	319.8	-110.7	197.7	-119.2	24.1	627.5	1020.9	139.4	2.1	-69.7	164.3
3rd	138.8	257.7	150.4	271	137.8	182.4	-26.1	-152	57.7	170.9	-16.2	-28.2
4th	-87.4	35.6	-121.7	59	-101.6	79.5	50.5	40	-609.3	-180.9	11.2	34.3
5th	-80.9	93.6	-83.5	102.6	-67.9	74.3	35.9	-84.1	-143.5	124.8	-2.3	2.5
6th	13.4	-31	49.5	-34.9	63.4	-27.7	2.1	33	0.8	-53.2	1.9	-2.5
7th	7.5	-13.9	-7.8	-13.4	1.8	-4.7	-18.4	-27.4	14.3	25.5	1.2	1.9
8th	7.6	3.8	-15.6	-2.3	-34.6	1.8	-63.4	50.5	55.5	-59.8	1.3	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-697.5		-2325.8		-617.3		-2922.5		-191.2		129.9	
RMS	930.6		3795.6		979.9		3815		3183.7		2166.3	
1/2 P-P	1766.4		6129.8		1886.5		6155.5		5061.4		3460.1	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	338	937.9	-1602.5	-4931.2	-1018.9	190.6	5006.1	-1411.7	4208.5	-1131.5	2774.3	-1087.4
2nd	428.8	731.1	-678.9	-1156.3	-426.9	-800.2	602.5	1254.8	458.1	1000.3	270.8	416.6
3rd	-67.9	45.3	-144.2	71.4	64	35.2	66.6	178	60.2	127.7	15.2	-68.5
4th	-18.6	-7.4	147.9	-6.9	-33.2	-36.1	68.2	-2.6	-18.8	8.8	-425.9	5.5
5th	-48.5	-33.1	74.4	34.5	18.7	-75	5.4	116.2	11.6	66.3	94	-116.8
6th	-3.2	18.6	-3.8	-27.5	-3.9	-17	9.4	37.3	4	20.4	-14.2	-38.9
7th	-3.4	-16.2	-24.7	-39.2	-15.8	10.5	-45.7	-30.5	-37.9	-33.3	-19.2	-28.6
8th	-4.4	1.1	-38.9	52	-9.7	6.6	-53.7	51.1	-47.3	44.1	-22.3	34.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1069.2		-522		0		-4213.3		-590.2		-88.9	
RMS	1645.3		331.8		0		3342.8		298.9		50.2	
1/2 P-P	2928		547.8		0		5418.9		499.4		88.8	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1953.7	-1014.1	-245.7	343.3	0	0	1403.1	4330.8	-295.5	-244	52.2	-35.4
2nd	149.7	155.7	-52.1	187.1	0	0	-574.6	-1086.8	77.5	-150.3	-25.3	19.1
3rd	-38.6	-132.7	21.2	46.5	0	0	158.5	-7.3	38.9	-24.9	-0.3	-2.2
4th	-600.8	72.3	23.5	28.3	0	0	31.6	24.5	14.1	27.4	2.6	5.8
5th	121.9	-236.4	5.2	0.8	0	0	-100.1	-37.7	0	4.8	0.1	1.4
6th	-9.8	-61	3.7	0.5	0	0	3.1	-10.1	-1.1	1	0.1	-0.4
7th	18.4	12.5	-0.5	-0.5	0	0	-21	-8.2	-1.1	-0.6	-1.5	-1
8th	31.2	-15.2	1.3	0.7	0	0	-65.4	53.7	0.9	0.7	-0.9	-0.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	229.9		483.3		456.5		0		457.3		76.9	
RMS	648.3		379.3		235.1		0		403.6		728.4	
1/2 P-P	1315.5		778		495.9		0		637		1211.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	226.3	-98.1	148.1	-120.7	174.2	-247.4	0	0	259.2	-440.3	512.7	-764.5
2nd	-431.5	-729.9	-237.4	-415.6	-88.2	-59.2	0	0	29.3	234.7	-88	405.4
3rd	6.3	-87.3	9.6	-54.2	7.3	-23.9	0	0	29.7	-2.8	38.5	199.9
4th	-9.8	-1.9	0.6	-1.3	8.9	5.2	0	0	14.2	1	-15.8	-0.6
5th	-12.2	26.4	2.8	8	25.1	-12.7	0	0	37.2	-41.8	-23.5	20.4
6th	9.2	-8.5	7.8	-1.6	6.4	7.6	0	0	2.6	12.6	-10.9	-6.1
7th	15.3	-8.5	8.8	-4.7	-2.8	0.7	0	0	-20.6	6.8	20.1	7.7
8th	9.4	-6.4	6.3	0.6	0.6	8.1	0	0	-12.2	12.9	18.9	-6
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-384.2		-684.1		-720.9		-4003.8		-2134		-539.6	
RMS	698		549		299.5		3910.9		1482.4		313.2	
1/2 P-P	1172.4		1017.1		702.7		6582.9		2998.7		520.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	421.2	-757.4	224.2	-597.5	-101.3	-209.3	2838	-1432.9	253.9	-304.7	1249.3	-304.7
2nd	-164	293.7	-177.6	176.6	-173.8	14.9	1126.9	218.9	-79.1	173.3	76.7	173.3
3rd	44.9	289.2	56.3	298.2	69.9	194	-16.9	-14.2	-21.2	-26.3	116.3	-26.3
4th	-57.8	58.5	-77.5	85.8	-71.1	94.8	51.4	-526.8	2.7	32	-504.6	32
5th	-64.9	58.8	-64.2	71.4	-49.1	61.5	9.1	-110.9	7.2	0.1	10.8	0.1
6th	16.5	-18.5	48.1	-24.4	61.9	-19.4	4.2	-24.3	2.1	0.5	-29.1	0.5
7th	5.8	-11.1	-8.5	-17.2	-2.4	-14.3	-10.2	-7.3	0.2	0.5	-10.2	0.5
8th	4	3.2	-25.9	7.7	-43.5	10.7	-74.8	55.3	0.3	-1.9	-28.9	-1.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	101.2	-1664.7	189.5	-2294.6	375.6	338						
RMS	939.2	4732.1	985.4	4684.7	3930	2667.5						
1/2 P-P	1879.5	7872.9	2057.4	7826.5	6487.5	4368.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	403.6	895.8	-2850.7	-5826.8	-971	238.4	5803.7	-2676.1	4913.6	-2192	3210.9	-1776.6
2nd	487.6	705.1	-852.4	-1252.8	-501.1	-790.1	851.2	1396.1	659.3	1120.4	398	485.8
3rd	-122.1	-28	-147.4	41.1	-6.6	90.5	74.1	178.6	71.5	131.1	79.6	-55.2
4th	-5.1	16.2	158.1	14.2	-27.5	-23.6	61.3	-20	-17.6	-47.7	-381.2	-225.6
5th	-39.5	-26.2	53.1	-1.1	5.5	-80.4	13.9	110.8	8.2	67.9	55.3	-95.7
6th	-8.1	6.4	-2.5	-30.3	-0.8	-7.8	16.2	47.4	7.5	32.2	-31.1	-33.8
7th	-1.9	-16.6	-14.5	-6	-21.1	7.2	-25.4	11.9	-21.8	-0.4	-9.5	-23.3
8th	6.1	-2.3	-52.4	23.4	-1.4	8.3	-64.3	23.9	-55	16.2	-26.2	14.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-986.1	-537.8	0	-3551.7	0	-611.7	-81.8					
RMS	2008.1	343.6	0	4341.4	0	313.1	49.8					
1/2 P-P	3498.1	555.3	0	7114.7	0	524.5	88.2					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2251	-1524.1	-268	344.6	0	0	2684.8	5282.9	-298.4	-267	50.9	-32.5
2nd	240.9	209.6	-62	196.2	0	0	-778.2	-1244.2	95.3	-153.1	-28	21.8
3rd	57.7	-118.3	18.3	41.7	0	0	162.5	6.4	37.7	-28.9	0.3	-2.2
4th	-569.1	-252.7	15.9	26.4	0	0	23.5	7.6	3.8	25.4	1	5
5th	57.5	-188.9	-1.2	-0.6	0	0	-77.1	-35.8	0.8	0.4	0.7	1.5
6th	-26.8	-56.3	3.5	2.4	0	0	2.5	-24.9	-2.9	-0.3	0.2	-0.2
7th	15.5	-14.4	-0.7	-1.1	0	0	-13.7	26.1	-1.2	-0.5	-1.7	-0.6
8th	32.2	-7.4	0.9	0.4	0	0	-70.5	29.4	-0.4	1.1	-0.7	-0.7

RUN/POINT 35/26	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1092.7	-44.7	1014.6	-89.7	672.2	-255.6	0	0	526.1	-476.7	0	0
RMS	722.2	-514.1	420.3	-369.9	214.7	-39.9	0	0	415.3	235.9	0	0
1/2 P-P	1630.2	-195.6	931.6	-114.9	427	-31.9	0	0	789.6	39.6	0	0
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-444.6	-44.7	-263.6	-89.7	3.3	-255.6	0	0	212.1	-476.7	491.5	-825.9
3rd	-514.1	-650.5	-288.1	-369.9	-108.9	-39.9	0	0	25.8	235.9	-149.5	377.7
4th	19.6	-195.6	18.8	-114.9	2.2	-31.9	0	0	11.6	39.6	8.5	299.1
5th	4	27.8	5.5	14	3.6	4.8	0	0	-3.2	-14.6	-24.3	-18.5
6th	-30.6	8.1	-4.1	3.6	32.1	2.5	0	0	58.6	-2.3	-18.6	16.4
7th	14.8	-12.9	10.5	-5.1	4.5	4.6	0	0	-4.2	8.9	-14.7	1.9
8th	23.5	-8.5	12.8	-6.6	-3.3	-3.9	0	0	-28.2	4.5	22.6	16.1
	6.9	-10.8	5.3	-0.9	2.3	11.2	0	0	-8.7	20.5	16.2	-12.9
RUN/POINT 35/26	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-383.1	-802.5	-736.5	-632.8	-822.5	-228.8	-3676.4	4638.2	-2132.3	1736	-548.6	-319.4
RMS	760.4	286.2	615.1	185.1	350.8	41.3	4404.8	869.6	1857.9	48.3	332.2	173.6
1/2 P-P	1351.9	336.3	1196.2	320.6	794.2	205.7	6960.5	-214.5	3897	135.6	552.3	-11.8
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	430.2	-802.5	230.3	-632.8	-111	-228.8	-3785.6	4638.2	-1411.4	1736	279.3	-319.4
3rd	-292.4	286.2	-305.7	185.1	-262	41.3	1193.2	869.6	369.5	48.3	-79	173.6
4th	14	336.3	12.5	320.6	25.2	205.7	82.9	-214.5	-166.8	135.6	-39.9	-11.8
5th	-36.1	94.5	-43.3	124.7	-49.3	116.4	68.6	-6.7	-874.8	-717.6	-12.6	43.2
6th	-109.6	-24.7	-112.6	-11.7	-72.3	0.1	0.4	-8.5	-110.8	-115.9	0.5	2.4
7th	30.4	-19.1	48.6	-33	54.3	-21.9	11.8	10.5	-9.4	-12.1	1.7	0.2
8th	9.5	-11.1	-6.5	-34.3	-10.1	-32.2	-18.9	-15.2	4.4	2	1.5	-0.4
	0.7	0.6	-25.4	16.7	-40.4	13.7	-108.3	28.4	98.5	-35.8	0.8	-0.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
35/26										
MEAN	994.3		-1317.6		1110.9		-1928.3		732.8	
RMS	707.2		5058.5		731.7		4919.6		4175.2	
1/2 P-P	1317.4		8184.4		1393.2		7804.3		6550.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	336.1	223.3	-4478.7	-5300.3	-266.9	153	5150.1	-4302.3	4445.5	-3594.9
2nd	528.9	616.3	-1133.9	-1034.7	-559.6	-710.1	1198	1183.1	952.9	947.9
3rd	-245.9	-38.4	-163.8	-46.9	-6	219.5	-48.8	195.9	-20.2	141.8
4th	6	30.2	189.3	11.3	-12.6	-9.3	59.5	-37.6	-54.5	-84.9
5th	-9.6	-40.4	25.4	20.1	16.9	-37.3	35.8	45.3	36.1	41
6th	-12.8	1.5	4.8	-17.3	-1.8	-5.9	8.1	15.6	8.8	10.9
7th	-4.6	-20.7	-6	-14.7	-26.3	8.1	-22.2	24.8	-19.5	10.6
8th	3.9	-1.1	-83.6	21.2	-6.9	4.8	-91.6	39.2	-80.1	29.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
35/26										
MEAN	-987.6		-545.9		0		-3224.5		-629.9	
RMS	2327.9		364.4		0		4702.1		330.5	
1/2 P-P	4401.8		589.8		0		7493.6		556.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400	
1st	2121.9	-2196.4	-295.8	360.8	0	0	4373.7	4699	-308.5	-291.7
2nd	403.2	129.8	-62.6	202.9	0	0	-1128.1	-1024.5	100.3	-156.7
3rd	116.3	-172.3	26.9	16.7	0	0	180.9	104.8	21	-38.1
4th	-894.7	-412.6	3.1	37.5	0	0	19.5	-23	-11.6	34.6
5th	96.4	21.5	-1.4	-4	0	0	-48.4	-22.6	4.3	0.1
6th	21.2	-20.4	5.7	2.7	0	0	3	4.7	-2.3	-1.8
7th	26.9	-20.8	0.2	-1.7	0	0	-6.8	5.4	-1.3	-1.8
8th	54.7	-11.1	1.1	0.1	0	0	-101.3	28.5	0.3	1.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
35/27												
MEAN	-349.6	-747.5	-878	-2613.2	-2030.1							
RMS	817.9	677.7	396.3	5786.2	2252.6							
1/2 P-P	1436.7	1273.4	879.2	8780.5	4457.9							
HARMONIC												
1st	463.4	-840.9	248	-681	-122.6	-266.8	6020.3	-1737.1	2109.3	320.8	-307.2	
2nd	-345.3	266.4	-362.9	168.6	-308.5	33.8	1394.6	448.9	105.4	-65.5	170.4	
3rd	27.1	437.9	25.1	423	36.8	276.3	144.5	-223.6	189.2	-39.8	-51	
4th	7.8	140	13	177.5	-2.9	154.7	105.4	16.8	-825.3	-32.1	20.9	
5th	-59.7	-15.2	-57.2	6.4	-29.8	23.4	-2.7	-54	-157.2	-10.3	0	
6th	44.4	-7.8	65.7	-9.2	65.7	2.5	20.8	-18.7	-11.9	-1.2	5.2	
7th	8.1	-4.4	3.6	-23.8	-0.4	-28.2	-14.7	10.1	30.7	3.7	3	
8th	3.8	-4.6	-8.5	-21.4	-17.8	-31.3	-86.5	89.2	-51.4	1	-5.5	

RUN/POINT 35/27	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1550.8		-370.4		1698.3		-1022.8		1516.3		766.2	
RMS	761.5		6432.6		775.1		6117.7		5191.1		3599.9	
1/2 P-P	1308.9		9772.5		1311.8		9269		7805.1		6024.8	
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	314.5	460.5	-5651.4	-6869.7	-477	120.3	6263.5	-5668.6	5398	-4743.1	3535.3	-3415.5
2nd	586.6	637.2	-1348.2	-1242.4	-603.7	-711.9	1354	1227.6	1075.6	993.4	673.8	398
3rd	-284.7	-52.5	-249	-99.3	-7.2	274.4	-78.7	224.6	-37.8	164.7	127.8	-101.4
4th	18.9	43.4	243.1	-1.4	11	16.6	55.4	-71.1	-114.8	-117	-932.3	-382.2
5th	-4.2	-25.2	23.3	-4.7	23	-31.8	15.3	24.8	17	27.2	58.5	39.5
6th	-14.5	0.7	-17.2	-7	13	-7.8	-9.5	32.5	-10.5	23	-22.5	-19.5
7th	-3.4	-19.1	-34.1	-26.1	-17.8	5.7	-32.6	27	-27.1	7.6	4.1	-41.9
8th	0.6	7.1	-73.4	57.8	-8.2	5.1	-85.8	50.2	-77.3	39.7	-38.4	34.2
RUN/POINT 35/27	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-851.1		-552.6		0		-2317.4		-647.3		-64.1	
RMS	2837.6		381.2		0		6147		347.7		38.4	
1/2 P-P	5246.5		597.3		0		9405.5		579		65.8	
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2498.1	-2722.1	-334.2	358.5	0	0	5639.9	6367.3	-305.4	-327.3	36.9	-15.1
2nd	453.3	147.8	-63	204.7	0	0	-1265.1	-1195.4	103.6	-159.1	-25	23.8
3rd	173.8	-204.2	35.2	41.7	0	0	224.4	143	45.9	-36.4	-0.6	-10.2
4th	-1363.6	-397.4	-16.4	29.6	0	0	53	-30.8	-28.7	28.6	-6.6	0.6
5th	74.9	46.4	2.7	-2.7	0	0	-55.3	6.3	2.2	3.8	-2.6	2.2
6th	-12.1	-32.4	6	6.9	0	0	9.2	1.3	-3.4	-4.1	-1	1.5
7th	26.1	-41	-2.2	-0.7	0	0	0.9	0.4	-1.2	1	-1	-0.2
8th	41.2	-18	1.1	-1.3	0	0	-93.4	44	1.9	0.4	-1.1	-1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3513		-4592.8		-3537.5		-5115.3		-2142.6		-727.4	
RMS	631.4		925.3		682.5		1199.2		982.2		608.3	
1/2 P-P	1103.9		1719.7		1337		2242.1		1849.9		1314.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Pitch Link, lb	
1st	158.5	-55.6	819.4	-645.8	-177.3	-14.7	865.2	1166.8	701.8	996	583.2	403.1
2nd	275.6	788.4	-309.7	-640.2	-252.5	-862	279.4	739.4	202.1	564.3	116.5	188.4
3rd	74.5	154.4	-81.1	78.3	183.3	-95.5	85.1	102.9	61.8	71.4	-32.2	-33.9
4th	-65	-61.6	98.1	21.8	-80.5	-82.3	70.2	20.4	11.5	-7.6	-221	-116.3
5th	-86.6	24.3	89	-27.8	-33.5	-103.7	27.3	107.1	17.3	46.6	19.5	-193.2
6th	-9.1	7.7	1.2	-6	-4.3	-13.1	13.3	-3.9	13.2	-6.1	-0.9	-30.5
7th	-0.7	-19.6	30.6	13.8	-19	3.4	28.4	2.7	13	2	-26.3	-7.4
8th	-24.3	-11.9	-71.7	-0.1	-17.1	-3.2	-71.5	-8.8	-67	-8.6	-38	-4.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1579		-455.9		-3202.5		-6297.4		-498.2		-130.6	
RMS	562.1		321		720.3		1042.7		282.2		37.8	
1/2 P-P	1294.6		522.5		1422.8		1905.5		470		71.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	485.6	134.7	-182.5	374.9	97.7	472.8	-1230.8	-301.9	-323.7	-178.8	24.4	-43.3
2nd	47.2	6.6	8.5	162.2	214.7	809.5	-239.5	-611.2	6.3	-137.9	-10.8	11.3
3rd	-101.5	-77.8	19.3	42.4	-88.2	-232.2	101.5	-25.9	24.6	-14	-3.5	-4.8
4th	-342.2	-130.5	27.6	51.4	-80.5	-74.5	81.9	53.2	30.1	39.2	2.4	9.1
5th	-14.5	-317.4	2.9	3.3	84.9	-42.5	-91.9	16.6	-3.5	1.3	-2.3	-0.3
6th	-1.6	-44.3	2.9	0.6	-5.7	12.3	-11.2	-18.4	-2.8	2.1	0.9	-0.5
7th	-24.8	-0.1	-1.2	-2.7	6.8	17.1	11.2	-0.6	-2	1.4	-0.3	0.9
8th	26.5	5.5	0.3	2.1	-20.4	-0.6	-73	-8.4	1	1.8	-0.1	-1.3

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570						
MEAN	-2137.4	-991.6	-147.4	295.4	257.6	-103						
RMS	752.8	431.9	168.3	268.9	350	652.9						
1/2 P-P	1351.7	762.6	332.4	497.4	630.3	1077						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE						
1st	-553	-67.6	-313.5	-110.1	-36.2	-200.1	-301.3	201.8	-362.5	472.4	SINE	
2nd	-396.6	-794.9	-213	-456.2	-69.7	-82.6	21.3	145.8	49	222.1	10.1	428.1
3rd	-134.2	70.4	-72.6	33.8	-5.7	-7.2	53.4	-40.1	84.3	-50.7	169.3	26.1
4th	-44.3	-54.4	-15.6	-24.9	9.7	15	27.1	38.5	35.9	50.2	0	27.4
5th	12.7	36.8	10.9	12.3	10.9	-18.8	8.5	-49.3	3.4	-57.6	-21.6	10.5
6th	2.2	-9.6	4.7	-0.5	6.2	11.1	6.8	20	4.9	20.2	-10	-16.2
7th	16.4	-6	8.5	-0.2	-4.6	4.2	-16.9	6.2	-24	4.3	19.5	3.1
8th	2.8	4.7	1	4.3	-0.7	1.7	-4.1	-2.9	-2.8	-9	2.7	10.6

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400		
MEAN	-355.8	-487.2	-395.3	-5625.5	-2458.7	-491.3		
RMS	613.8	469.6	233.1	711.7	485.7	282		
1/2 P-P	1058	883.2	554	1562.1	1034.8	458.2		
HARMONIC								
1st	COSINE 393.4	SINE -643.5	COSINE 238	SINE -146	COSINE -341.3	SINE -16.7	COSINE 200.3	SINE -303.4
2nd	-3.1	332.3	-24.3	209	539.5	721.5	-50	152.4
3rd	179.1	117.8	193.7	146.6	-67.5	-124.4	102.8	-32
4th	-101.1	-41	-149	-35.1	56.7	41.9	-211.6	30.2
5th	-11.4	101.8	-6.8	101.3	2.4	-61.7	126	-0.1
6th	4.9	-20.1	42.1	-16.5	3	-1.1	-41.6	1.8
7th	10.6	-7.6	-10.3	5.7	-11	-5.8	3.6	1.2
8th	9.7	2.8	-5.6	-17.4	-19.4	-47.4	37.5	-0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-2371	-3403.8	-2369.9	-3915.9	-1078.4	-245.8						
RMS	694.9	1515.8	742.7	1639.8	1340.3	919.3						
1/2 P-P	1316.3	2797.8	1455.5	2988.4	2407.2	1643.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Pitch Link, lb	
1st	323.3	192.2	-1877.3	-375.1	160.4	2053.1	117.9	1702.7	135.3	1213.1	-195.1	
2nd	451.2	771.6	-790.9	-427.6	-846.1	530.3	883.9	389	689.7	197.9	247.1	
3rd	71.4	90.8	107	127.5	-82.7	104.7	111.2	73.3	75.5	-44.2	-56.4	
4th	-39.5	-48.2	17.4	-52	-60	60.2	23.3	19.7	4	-131.2	-61.9	
5th	-53.3	14.1	-6.5	-18.7	-65	0.6	98	-1.5	47	34.7	-137.2	
6th	-3.2	9.2	2.2	-2.5	-8.8	-0.7	0.9	5.4	-3.8	-10.1	-28.5	
7th	-3.8	-17.9	-15.3	-16.2	5.7	-20.1	-25.7	-19.4	-20	-30.2	-13.3	
8th	-5.1	-4.8	-4.5	2	-7.9	-59.9	-16.8	-54.9	-9.7	-35.3	-1.2	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1365.4	-495.9	-2065	-5151.2	-547.4	-132.8						
RMS	748.5	325	676.9	958	286	45.1						
1/2 P-P	1528.6	523.3	1150.9	1984.2	475.6	85.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	919.4	-309.6	-215.5	358.1	-80.7	-185.1	928.6	-303.5	-211.5	38.4	-44.7	
2nd	87.7	39.6	-16.9	175.5	388.7	-528.8	-762.4	35	-149.2	-18.4	12.3	
3rd	-125.2	-101.8	23.4	50.1	-93.1	139.4	-45.9	34.2	-16.7	-3.6	-5.9	
4th	-208.4	-66.2	27.9	38.7	-51.3	72.8	46	28.3	28.8	2.9	7.5	
5th	26.7	-234.3	6.8	1.6	60.1	-63.6	-4.9	-3.3	5.3	-2.6	-0.2	
6th	-4.6	-43.6	3.5	-0.4	1.2	-2.2	-1	-2.5	2.1	0.9	-0.7	
7th	1.9	14.1	-0.9	-3	5.1	-19.5	-17.8	-2.3	0.8	0.3	0.4	
8th	20	11.1	-0.6	1.5	-2.8	-51.7	-23.1	-0.5	1.8	-0.1	-1	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
16/29						
MEAN	-785.2	-149.7	202.4	463.4	397.2	44.4
RMS	566.2	333.5	199.4	293.3	365.3	656.3
1/2 P-P	1122.6	697.9	357.4	482.8	589.4	1070.6
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-6.2	-175.8	11.5	-168.5	106.2	-238.1
2nd	-302.9	-677.6	-161.2	-384.7	-59.7	-58.8
3rd	-83.2	-119	-40.3	-70.1	-2.5	-19.6
4th	-14.1	-24	-2.4	-10.5	5.4	9.6
5th	-1.8	24.8	6.3	9.2	18.8	-8.6
6th	21.2	-9.5	12.1	-2.2	-1.1	6.6
7th	10.1	0.1	7.3	0.6	1.1	0.1
8th	8.8	8.9	5.9	3	3.3	-6.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
16/29						
MEAN	-334.2	-569.1	-577.8	-4049.8	-2308.2	-521.1
RMS	623	485.3	258.4	2335.3	1101.4	276.8
1/2 P-P	1039.6	945.9	587.6	4329.2	2469	474
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	389.8	-644.8	219.4	-490.8	-64.1	-164.2
2nd	-110.2	284	-127.7	183.7	-121.1	32.3
3rd	99	294	102.2	301.7	98.7	205.2
4th	-49.6	26.2	-64	46.3	-59.1	68.8
5th	-44.9	50	-45.4	57.9	-36.8	49.7
6th	31.7	-10.4	58.9	-11.1	62.5	-3
7th	5.9	-6.2	5	-11	6.6	-10.1
8th	10.2	-7.4	-15	-33.8	-32.4	-43.9
				17	19.8	-17.8
						0.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-985.6	-1902.1	-976	-2480.9	188.3	278.9						
RMS	806.4	3361.8	869	3298.5	2741.2	1894.5						
1/2 P-P	1512.6	6008.9	1762	5719.6	4704.1	3176.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	453.2	706.4	-1733.5	-4233.4	-842	260.4	-1454.2	3549.5	-1154.6	2338.4	-1050.6	
2nd	348.4	644.1	-610.7	-954.8	-353.4	-736.8	1085.7	399.8	861.7	230.7	339.6	
3rd	-137.6	48.2	-111.6	44.9	79.1	99.2	42.4	43.1	110.7	36.9	-79	
4th	-9.8	-10.1	143.3	3.6	-24.1	-34.7	59.5	8.1	-1.3	-516.3	-37.4	
5th	-30.9	-8.9	51.2	28.5	6.2	-54.8	-12.5	-5.6	61.6	79.6	-66.9	
6th	-17.6	12.3	5.3	-13	3.4	-10.6	2.7	9.7	9.5	3.6	-31.2	
7th	0.7	-6.1	-4.4	-22.4	-14.1	0.3	-11.5	-6.2	-18.7	-10.6	-15.4	
8th	2.7	0.3	-13.3	22.4	-3.5	-2.5	-7.9	-11.7	16.2	-2.1	12.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1153.4	-523.4	-738.5	-3598.4	-582.6	-125.3						
RMS	1498.7	312.8	630	2734.5	277.7	50.9						
1/2 P-P	3024.3	523.5	1282.9	4831.4	476.4	92.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1655	-956.9	-235.1	324.5	-230.5	-353.5	1436.4	3394	-271.2	52.8	-39.1	
2nd	122.6	110.5	-56.1	166.1	285.1	678.7	-553.9	-879.3	74.6	-24	13.4	
3rd	0.6	-153.7	19.8	44.2	109.7	-128.6	124.8	21.6	41.2	-2.5	-5.8	
4th	-734.5	-1.3	13	38.7	-25.4	-38.3	55.3	4.7	6.5	-1.1	6.6	
5th	103.8	-148.2	4.5	2.9	42.9	8.5	-63.4	-48.1	-3.7	-2.2	0.5	
6th	11.5	-38.2	4.3	1.8	-20.2	11.1	2.3	-2.4	-4.3	0.4	-0.2	
7th	10.9	5.4	0.5	-3.3	-0.6	7.8	12	-15.9	-1.7	0.5	0.3	
8th	14.1	7.3	0.6	0.2	3.5	3.2	-25.4	16.4	0.4	-0.9	-0.9	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
16/30												
MEAN	-185.2		-1210.8		-130.1		-1940.2		687.6		471.3	
RMS	751.6		4000.8		794.2		3868.8		3242.8		2238.4	
1/2 P-P	1423.3		6663.4		1579.2		6536.5		5408.6		3746.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	428.3	450	-2856.6	-4608.4	-584.1	262	4520.8	-2630.8	3841.5	-2154.3	2545.3	-1701.5
2nd	478.1	689.4	-915.1	-1115.5	-473.5	-773.7	844.2	1214.2	649.8	969.1	383	405.5
3rd	-120.2	-23.8	-133.7	10.6	12.8	91.6	25	115.6	27.4	82.4	39.5	-68.3
4th	-14.4	-6.2	106.8	-2	-16.7	-25.7	72.4	5.7	-10.8	-29.3	-372.9	-200.9
5th	12.4	-46.7	2	36.4	36.2	-5.4	-39.9	53.6	-14.4	46.1	109.1	37.7
6th	-3.2	12	-7	-17.1	5.6	-12.6	0.8	24.6	6.4	14.1	5.4	-28.8
7th	-3.9	-16.9	17.8	1.9	-14	2.7	-15.7	-7	-12.4	-8.7	-14.8	-9.1
8th	7.9	-22.4	-61.9	-64.9	10.3	-12.7	-64.7	-83.7	-53.8	-70.7	-28.3	-37.4
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
16/30												
MEAN	-1082.6		-541.1		84.3		-3031.9		-606.7		-115.7	
RMS	1731.8		330.2		636.8		3414.8		298.6		49.1	
1/2 P-P	3092.7		536.5		1203.8		5814.1		491.2		89	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	1821.6	-1435.1	-264.8	327.6	-220.8	-136.5	2663.5	3753.2	-279.3	-265.3	48.7	-37.8
2nd	219.7	165.9	-63.1	181	412.8	733.8	-794.3	-1049	89.7	-137.5	-27.5	13.8
3rd	13	-117.2	15.4	47.4	94.9	-55.6	150.3	42.9	41.2	-21.6	-2.7	-6
4th	-570.5	-235.2	10.4	32.5	-23.4	-22.2	63	21.3	1.1	25.6	-0.8	5
5th	153.3	19.6	6	4.1	11.7	38.7	-19.7	-56.9	-2	6.6	-2.8	1.4
6th	4.4	-46.2	2.8	1.4	-6.9	13.1	13.5	-18.3	-3.1	-0.8	0.1	-0.3
7th	6.3	8.7	-0.1	-1.3	5.1	14.1	23	11.8	-1.1	0.2	0.4	0.4
8th	21.4	34	0.4	2.2	11.3	-21.6	-48.9	-71.6	-1.7	2.3	-0.1	-1.3

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-337.7	-668.6	-753.6	-2384.7	-2118.4	-548.1
RMS	702.9	568.9	325.5	4141.3	1759.8	312
1/2 P-P	1249.4	1165.9	723.1	6826.7	3591.3	522.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	444.4	-716.6	243.2	-571.8	-100	-282.7
2nd	-267.3	235.9	-288.8	137.5	-254.9	163.2
3rd	-0.3	350	1.7	339.9	19.1	-25.3
4th	-74.9	53.1	-95.5	74.2	-90.3	30.4
5th	-68.5	-56.8	-79	-56.9	-59.9	-9.8
6th	30.4	-14	50.1	-19.2	45.3	-1.5
7th	7.1	0.7	9.5	-3.2	11.7	1.1
8th	-2	-1.6	-39.3	-16	-48.9	-1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	505.7	-272.2	586	-1046.9	1473.5	811.8						
RMS	781.6	5037.4	835.3	4805.2	4046.1	2832.8						
1/2 P-P	1477.3	8182.1	1643.6	7517.1	6207.2	4668.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	248.4	660.3	-5858.7	-749.4	76.6	5517.2	-3611.2	4698.8	-2992.6	3088.5	-2258.1	
2nd	535.2	605.4	-1166.4	-544.4	-684.1	1065.2	1191.5	827.5	955.1	502.9	388.8	
3rd	-234.1	-50.2	-44.5	-11.6	224.4	-33.3	142.5	-8.4	114.9	108.4	-56.2	
4th	-27.2	9.6	58.6	-32.1	-17.3	87.5	-31.3	-82.1	-99.2	-852.5	-442.5	
5th	-0.4	-37.6	9.2	25.8	-23.3	-11.2	51.4	-4.2	40.7	50.8	12.9	
6th	-15.8	4.2	-17.8	13.1	-2.6	-9.9	7.1	-5.2	-0.1	6.7	-28.1	
7th	0.2	-11.1	1.3	-8.9	1.5	-53.8	11.2	-46.7	-1.8	-24.8	-24.4	
8th	16	-2.5	-45.8	11.6	-5.5	-13.4	-58.2	-7.3	-51.2	-5.3	-32.3	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-914.3	-552.7	761	-2066.7	624.1	-107.8						
RMS	2271.6	342.2	640.7	4477.8	310.6	48.5						
1/2 P-P	4170.5	556.5	1257.3	7139.8	515.2	87.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2187.8	-1847.5	-293.1	323.7	-62	3530.3	5024.2	-274.7	-290.8	52.2	-26.4	
2nd	311.9	143.3	-64.9	187.9	463.6	-978.1	-1122.5	100.1	-138.9	-31	16.2	
3rd	130.5	-124.3	20.6	41.5	219.3	154.7	96.6	45.3	-22.1	-1.9	-5.8	
4th	-1267.6	-516.5	-2.5	37.2	-37.9	89.7	8.4	-8.2	25.8	-2.9	3.6	
5th	64.6	-3.4	2.3	8.7	3.8	-18	-28.1	-9.4	5	-2.4	0.8	
6th	14.2	-29.9	2.9	3.4	-13.7	15.9	3.5	-1.1	-0.8	0.1	-0.5	
7th	20	-13.5	-2.7	-3.2	-0.1	-14.1	7.2	-2.3	0	-0.2	-0.2	
8th	-1.1	23.3	-0.6	2.1	9.7	-21.3	-50.7	-1.1	1.9	-0.3	-0.4	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, r/R=0.144	Blade 1, r/R=0.167	Blade 1, r/R=0.215	Blade 1, r/R=0.280	Blade 1, r/R=0.325	Blade 1, r/R=0.570	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	
MEAN	3169.5	2327.7	1245.7	0	768.4	421.5						
RMS	476.4	278	197.4	0	315.6	553.5						
1/2 P-P	843	482.1	373	0	677.8	1112.9						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	128.7	-330.4	70.8	-213.8	108.4	-232.1	0	105.6	-339.6	71.3	-600.7
	2nd	-339.5	-130.4	-193.9	-75.9	-74.4	2.8	0	-22.7	67.8	-148.6	92.9
	3rd	365.2	-206.1	208.2	-115.5	20.7	-32.6	0	-174	61.2	-434.3	156.5
	4th	49.4	36.4	29.5	6.9	12.2	-33.9	0	-30.7	-62.5	-43	-11.6
	5th	24.1	-107.5	11.5	-41.6	-12.1	36.9	0	-45.6	139	9.4	1.1
	6th	28.5	-0.6	12.6	-1.1	-8.3	-2.7	0	-36.7	-0.6	22.5	13.6
	7th	-11.9	-4.4	-1.7	-4.5	10.9	-2.3	0	14.7	3	-15	-5.2
8th	-2.9	-42.9	-10.2	-14.1	-22.6	28.6	0	-22.9	62.5	55.8	-66.7	
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400	Blade 1, r/R=0.570	Blade 1, r/R=0.400
MEAN	-220.8	-753.7	-1054.9	-2222.6	-2062.4	-470.3						
RMS	653.9	694.6	500.4	7736	2641.1	211.8						
1/2 P-P	1284.7	1437.4	1143.6	11332.6	5229.8	361.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	36.2	-578.4	89.1	-442.9	-36.4	-163	7771.7	-1478.1	2332.5	224.8	-159.1
	2nd	-479.7	-13.1	-648.7	-50.3	-483.5	-18.2	619.5	452.7	-21.6	-29.8	83.4
	3rd	-353.8	278.3	-343.8	227.5	-350.7	97.4	54.7	-540	-270.2	7.4	27.8
	4th	-2.2	39	102.1	115	129.3	79.5	103.9	746.4	-2201.9	37.7	50.8
	5th	111.1	-254.5	104.3	-343.1	149.6	-186.2	117.6	-176.6	-406.9	25.4	-8.1
	6th	56.4	8.2	28.7	-3.4	-45.4	-28.7	4.9	29.4	24.7	9.7	-4.8
	7th	-3.9	-13.5	3	12.5	-20.5	-10.1	-43.5	18	54	-5.8	0.2
8th	-30.3	17.1	-43.4	85	-10.3	120.6	-206	217	211.4	-3.9	11.5	

RUN/POINT 41/19	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	3090.6	618.7	-7096	-8387.9	-517.3	324.2	6943.6	-7340.3	5975.6	-6135.6	3572.7	-4099.6
RMS	718.7	99.8	-928	-779.3	-377	-144.5	960.7	707.6	773.3	603.4	529.5	275.9
1/2 P-P	1402.4	-427.3	25.4	-345.8	-392.9	228.2	-216.1	10.2	-131.5	49.2	298.3	211.5
HARMONIC	50	56.4	4.2	255	62.7	41.3	116.4	-38.5	148	-282.7	241.2	-1447.3
	164.3	-1.4	-105.6	61	-2.5	120.9	-162.8	-135.6	-84.9	-47.8	175.3	340.2
	-26.7	3.2	8.8	22.4	26	-0.3	-8.7	-28.6	-8	-5.7	16.6	51.4
	2.5	13	-22	-39.4	11.7	0.3	5.7	6.3	2.9	-2.2	-13.2	-36.8
	-3.7	-56.5	-194.7	-169.6	-2.8	-40.9	-217.5	-195.3	-179.6	-189.3	-95.8	-118.5
RUN/POINT 41/19	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-897.5	-3102.7	-231.1	174.7	0	0	7274.1	8460.5	-143	-243.7	-15.8	8.8
RMS	3135	110.8	-18.2	100.6	0	0	-910.2	-735.3	34.3	-67.6	1.5	-9.4
1/2 P-P	5759.9	292.8	0.7	-23.1	0	0	-100.2	308.4	-16.1	6.9	-0.3	-0.9
HARMONIC	157.5	-2011.4	29.3	49.5	0	0	76.3	-0.9	32.2	42.1	0.2	-0.7
	321.6	509.9	-18.5	6	0	0	107.1	-31.3	-10.4	-18.1	0.2	-0.1
	7.5	79.6	2.5	-4.3	0	0	-1.8	12.4	-4.2	4.2	0	-0.1
	-36.2	-22.2	4.9	-0.1	0	0	40	15.3	-4.3	-4.2	0.3	-0.1
	90.7	62.2	-2.3	7.6	0	0	-176.9	-198.9	-3.9	8.9	0.2	-0.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-211.2		226.2		354.7		0		433.2		37.2	
RMS	788.6		458.6		240.9		0		393.9		697.5	
1/2 P-P	1517		910.6		555.6		0		685.7		1138.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	257.3	-40.9	168.7	-86	179.7	-222.9	0	0	256.4	-419.9	492.2	-733.5
2nd	-731.3	-743.9	-413	-427.6	-139.7	-65.7	0	0	71.7	227	66.4	393.4
3rd	-0.9	-105.7	3.7	-63.3	1.1	-25.5	0	0	20.3	3.4	42.2	163
4th	-30.7	-13	-10.2	-7.9	8.3	1.5	0	0	21.6	-2.1	-14.2	-7.3
5th	-32.5	20.7	-6.4	5.4	27.3	-12.1	0	0	51.3	-39.3	-23.4	7.1
6th	2.4	-18.5	3	-6.6	1	8.6	0	0	-4.4	21.3	-4.2	-9.7
7th	5.3	-6.4	2.7	-0.4	-3.3	7.7	0	0	-16.8	12.8	16.1	-7.7
8th	-2.4	-2.4	1.9	0.4	6.9	3.9	0	0	0.2	3.5	-2.4	-0.8

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-380.1		-632.7		-649.2		-3433.4		-1969.6		-540.5	
RMS	636.6		469.8		255.3		3450.2		1286.9		295.9	
1/2 P-P	1049		997.2		631		6200		2585.3		510.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	399.9	-713.1	216.8	-530.1	-88.2	-153.4	-3975.8	2200.4	-1270	1016.6	236.8	-290.7
2nd	-36	252	-105	135.6	-179.3	-9.1	1101.3	1175.1	178	88.6	-44.9	169.9
3rd	81.7	195.2	94.4	174.2	91	91.1	-26.4	-105	21.2	44.7	-31.1	-29.2
4th	-63.4	40.5	-73.7	57.7	-60.8	61.6	105.4	57.5	-609.6	-315.9	14.9	30.7
5th	-95.3	60.3	-100.9	70.5	-73	48.9	40.4	-70.6	-113.8	119.7	-1.8	1.9
6th	16.9	-17.5	45.4	-19.9	56.1	-15.5	14.7	23	12.2	-18.8	3.7	-3.5
7th	9.8	-3.3	6.8	14.3	14.9	23.8	13.5	14.8	6	-8.1	-1.7	4.1
8th	8.6	4.2	-1.4	0.6	-11.3	3.5	-26.8	-39.2	39.6	36.6	0.8	1.4

RUN/POINT 41/20	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-353.5	829.1	-1233.4	-2300.2	-5213	-952.4	154.4	5268.7	-2026	4451.5	-1645.1	2915.4
RMS	968.4	674.8	4216.9	-1115.9	-1191.3	-752	-733.8	1069	1249.1	827	1018.3	453.8
1/2 P-P	1969.6	-39.4	7344.9	-156.8	46.8	-5	121.9	80.3	106.7	71.6	80.6	37.5
HARMONIC		8.9	121.3	11.6	-7.7	-7.7	-1.4	65.3	-31.1	-20.9	-39.8	-419.4
	1st	-21.2	-35.2	54.8	5.3	30.4	-51.3	-23.3	96	-11.6	52.7	86.2
	2nd	-11.1	16	-12.7	-29.7	15.5	-15.9	-9.9	26	-13.2	15.3	-0.9
	3rd	-3.6	-7.4	-17.6	11.4	-3.3	6.1	-26.4	27	-25.9	13.1	-19.8
	4th	6.9	-9	-38.4	-25.8	12.6	-3.7	-38.9	-45.2	-28.5	-38.7	-20.6
	5th											
	6th											
	7th											
	8th											
RUN/POINT 41/20	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-787.2	-1208.8	-542.8	-248.2	336.9	0	2097.4	4627	-289.8	-248.5	37.2	37.8
RMS	1776	198.7	329.5	-35.7	189.9	0	-968	-1134.7	67.5	-147.1	8.3	-12.7
1/2 P-P	3327.2	-76.9	552.5	35.2	41.1	0	154.3	0.7	37.2	-30.9	0.5	0.7
HARMONIC		-137.3	25.9	26.8	26.8	0	61.4	23.5	19.6	20.8	0.1	-0.4
	1st	87.7	-220	4.8	1.7	0	-85.8	-29.3	-1	5.6	0	0.2
	2nd	-7.8	-71.8	1.8	-2.9	0	15.7	-18.8	-2	1.9	-0.1	-0.2
	3rd	-6	-25.7	-1.9	-2.6	0	6.8	32.9	-2	0.2	-0.2	-0.1
	4th	1.3	14.6	0.3	0	0	-30.8	-34.9	0.2	1.2	0.2	0.1
	5th											
	6th											
	7th											
	8th											

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	560.9		710.2		563.5		0		528.5		156.4	
RMS	606.5		347.5		194.6		0		375.6		681.2	
1/2 P-P	1225.6		680.9		396.5		0		699.5		1231.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-109.5	-40.2	-57	-77.2	87.2	-218.4	0	0	230.7	-402.9	474.2	-707.6
2nd	-479.5	-643.1	-267.7	-365.5	-102.7	-44.4	0	0	20.6	218.9	-91.5	361
3rd	6.7	-141.2	10	-83.7	4.9	-27.6	0	0	21.6	15.5	14	238.9
4th	-20.1	-0.3	-6.1	-0.1	6.5	6.4	0	0	12.8	1.3	-18.4	-10.8
5th	-39.5	-52.4	-7.8	-18.5	28.9	28.4	0	0	61.6	79.3	-13.7	3.3
6th	22.2	-19.7	13.3	-4.6	0.4	13	0	0	-15.2	27.9	-4	-10.2
7th	17.1	-10.6	11.4	-5.8	1.3	-0.2	0	0	-18.4	7.1	12	-2.4
8th	10.3	1.2	3.4	-0.6	-5.4	-4.8	0	0	-19.2	-7.2	17.1	18.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-326.5		-649		-747		-2597.3		-1940		-546.5	
RMS	685.2		556.1		311.7		4012.1		1582.8		307	
1/2 P-P	1234.8		1206.3		746.6		6606.9		3517.8		513.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	403.3	-710.3	216.5	-562.5	-103.1	-204.7	-3837.9	3889	-1291.6	1454.4	264.5	-288.3
2nd	-216.7	262.4	-245.3	164.1	-224.3	26.9	1042.5	944.6	233.4	51.9	-82.8	164.3
3rd	24.5	320	23.8	315.2	32.5	203.6	44.1	-174.5	-94	83.1	-15.1	-16.1
4th	-52.6	49.4	-61	69.2	-60.1	74	36.2	27.7	-522.1	-438.4	6.3	27.1
5th	-110	-140	-120.5	-150.4	-80	-89.4	37.8	30.3	-121.4	-228.6	-1.6	-2.9
6th	32.4	-26.2	46.4	-27.9	46.6	-15.2	-25.8	37.3	40.2	-43.5	4.8	-1.8
7th	12.8	1.1	4.1	6.1	2.4	11.5	3.6	-25.1	7.3	20.7	0.3	0.3
8th	-2.3	-4.1	-32.6	-16.6	-44.6	-15.5	-49.5	-17.6	55	12.8	-0.6	0.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	438.7	-425.8	521.9	-1091	1415.6	876.1						
RMS	732.9	4761.8	785.4	4642.4	3919.9	2695.2						
1/2 P-P	1506.9	7740	1616.1	7693.4	6478	4663.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	290.8	524	-3841	-5294.5	-614.6	154.2	5245.2	-3568.9	4484.8	-2965.3	2932.2	-2212.3
2nd	506.6	613.6	-1011.6	-1121.8	-530.3	-694.9	1060.9	1212.7	828.7	982.3	476.9	401.5
3rd	-163	-37.2	-166	-10.9	-22.4	132.3	0.3	178.7	5	130.6	39.3	-84.2
4th	-9.7	19.2	146.5	45.2	-23.9	-19.2	85.1	-23.6	-18	-33.2	-496.6	-143.4
5th	38.6	-69.7	-18.6	49.3	46.5	2.1	-26.4	33.9	6.1	45.9	171.4	121.8
6th	-17.4	13.5	15.2	-16.4	7.5	-13.6	-7.4	22.6	-3.6	16.4	46.6	-30.7
7th	-2.8	-17.4	-0.3	-36.9	-21	8.1	-19.9	-12.5	-14.1	-17.7	6.7	-19.7
8th	8.5	0.6	-42.2	-7.7	-4.6	-2.5	-38.7	-23.6	-27.9	-20.6	-9	-16.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-709.3	-548.2	0	-2229.5	-626.1	-109.5						
RMS	2100.3	338.6	0	4330.5	308.2	33.2						
1/2 P-P	4141.6	553.6	0	7325.7	515.5	58.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2057.3	-1808.5	-278.3	328.5	0	0	3703.7	4627.8	-283.6	-277.3	31	31.1
2nd	277	168.5	-65	192.1	0	0	-975.6	-1051.9	100	-142.7	8.1	-13.6
3rd	30	-145.3	11	37	0	0	171.7	60.1	33.8	-20.3	0.1	0.3
4th	-738.4	-113.6	14.3	28.5	0	0	27.2	5	1.6	22.4	0.2	-0.1
5th	238.1	129.1	1.9	0.9	0	0	-10.7	-48.3	-0.9	4.2	0.1	0
6th	47.4	-33.3	4.2	2	0	0	18	-7.5	-2.6	0.9	0	0
7th	30.6	12.7	-1.7	-1.4	0	0	-8.4	-7.9	-0.7	-1.5	0.2	0.1
8th	37	6.8	1.2	1	0	0	-52.8	-20.9	-0.2	1.8	0.1	-0.1

RUN/POINT 41/22	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1823.3		1492.7		879.6		0		639.2		305	
RMS	752.1		433.4		204.6		0		409.7		771.7	
1/2 P-P	1666		955.8		350.8		0		711.2		1366.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-425.6	-41.4	-248.3	-71	29.7	-243	0	0	247.3	-453.2	505.6	-786.3
2nd	-555.1	-684.5	-314.3	-390.7	-125.8	-45.9	0	0	7.6	229.3	-168.3	335.7
3rd	72.4	-378.7	50.7	-216.3	5.8	-50.1	0	0	-5.8	99	-35.8	422.6
4th	-1.8	33.4	-6.7	16.7	-21	-0.7	0	0	-34.4	-22.8	-18.6	-22.1
5th	15.1	14.7	9.4	10	3.9	1	0	0	-21.5	-6.2	-8.9	10.5
6th	15.8	-2	6	0.7	-7.7	2.2	0	0	-23.2	-0.9	-2.7	-1.3
7th	4.3	0.9	5.9	0.7	7.4	1.6	0	0	-3.1	1.5	-0.1	-2.9
8th	0.4	-0.3	-1.5	0.7	-4	1.5	0	0	-10.3	-0.3	16.7	5.3
RUN/POINT 41/22	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-275.9		-684.8		-871.8		-1043.7		-1805.4		-561.6	
RMS	804.2		676.7		397		6261.1		2698.2		347.5	
1/2 P-P	1397.6		1225.7		910.6		9225.1		5835.1		559.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	455.5	-803.6	249.4	-659.4	-118.5	-271	-4747.3	7256	-1556.2	2388.6	323.9	-298.2
2nd	-361.3	224.3	-386.6	127.1	-320.8	3.6	1364	1017.9	460.3	73.7	-88.4	185.9
3rd	18.2	481.5	26.4	449.9	43.6	279.8	153.1	-218.4	-266.6	207.7	-49.5	-36
4th	26.1	119.6	44.6	159.6	23.9	143.3	207.7	31	-2172	-1068.5	-13.4	19.4
5th	44	12.9	63.5	35.4	57.9	41.3	-33.4	-20.1	30.4	-28.9	-1	-18.8
6th	48	12.6	57.3	2.1	48.9	1.4	32.5	-0.5	-11.6	36	-0.1	4.7
7th	8.3	8.7	22.2	1.2	20.6	-10.9	-14.4	-42.7	4.6	44.6	6.2	7
8th	-4.9	-0.3	-31	-3.9	-33.9	-15.6	-62.3	-14.9	62.9	17.9	-0.9	-0.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$
41/22												
MEAN	1737.2	1073.7	1848.3	485								
RMS	718.2	6722.7	748.4	6378.8								
1/2 P-P	1379.4	10195.3	1340.3	9458.5								
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$
1st	304.6	-6871.1	-6289.8	-288.4	113.4	5749.7	-6697.6	-5632.7	3276.2	-3938.1		
2nd	546.2	-1363.5	-1175.7	-575.6	-716.5	1418.7	1129.6	918.4	728.8	321.8		
3rd	-415.5	-234.6	-122.3	-60.1	395.8	-76.1	234.5	185.2	197.7	-88.1		
4th	15.8	348.3	0.6	11.1	22	93.3	-100.2	-156.5	-1518.8	-464.1		
5th	-14.2	8.4	-36.7	-8	-47.6	4.3	41.8	31.1	-30.7	-27.6		
6th	-22.9	-3.3	16.6	18.2	1.4	29	12.6	15.7	3.1	-9.6		
7th	-1.9	-2.9	2.8	-8.6	2	-28.5	23.1	6.2	-7.1	-34.2		
8th	5.3	-10.3	1.3	1.9	-6.9	-83.2	-4.4	-5.6	-35.7	-3.4		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
41/22												
MEAN	-476.1	-559.8	0	-821.3								
RMS	3196.1	382.6	0	6513.1								
1/2 P-P	6336.5	619.9	0	9839.3								
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Blade 4, $r/R=0.400$	Blade 1	Blade 1
1st	2306.8	-3083.1	-342.3	344.3	0	6911.3	5828.1	-335.3	15.7	26.4		
2nd	500.7	91.9	-76	215.6	0	-1293.3	-1099.7	-165	7.9	-14.4		
3rd	285.9	-206	43.4	40	0	190.9	188.9	-38.5	0	1.8		
4th	-2196.3	-447.3	-6.4	23.5	0	112.9	-48.2	16.7	0.4	0.4		
5th	-63.3	-51.9	4	16.3	0	-50.8	29.4	5.6	0.2	0		
6th	-24.2	6.2	6.1	3.8	0	2.8	14.4	-1.8	-0.1	0.1		
7th	11.4	-34.6	-4.3	-2.7	0	2.2	-5.5	0.8	0.1	-0.2		
8th	29.9	16.3	1.7	-0.2	0	-72.1	-16.4	0.8	0	-0.2		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	2584.8		1963.9		1063.4		0		693		323	
RMS	919.1		534.8		244.4		0		438.3		832.5	
1/2 P-P	1864.9		1061.1		460.6		0		815.1		1464.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-380.4	-84.8	-222.5	-90.9	-263.9	0	0	0	260.4	-483.7	535.6	-864.2
2nd	-921.1	-711.3	-533.7	-410.2	-43.7	0	0	0	45.8	250	-87.6	380.3
3rd	51	-390.3	38.2	-223.9	5.5	0	0	0	6.2	88.8	-7.3	450.3
4th	-12.9	61.5	-11	27.5	-18.3	0	0	0	-21.6	-54.6	-7.5	-31.1
5th	-18.8	28.7	0.1	15.3	24.8	0	0	0	34.8	-21.7	-17.1	10.8
6th	6.4	4.1	4.1	2.4	0.6	0	0	0	-2.9	-6.6	-15	2.8
7th	17.4	4.6	12.9	1.1	6.9	0	0	0	-13	-5.3	1.5	8.5
8th	-12.8	0.3	-3.2	-0.4	11.4	0	0	0	14.3	-4.3	-18.3	7.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-294.6		-733.2		-943.6		-172		-1709.2		-582.2	
RMS	900.1		778.2		471.9		8157.7		3127.7		383.5	
1/2 P-P	1511.1		1347.6		1064.4		11796.8		6391.2		717.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	494.2	-923.5	270.6	-771.3	-130.3	-318.3	-5757.7	9702.4	-1828.8	3017.3	395.1	-271.2
2nd	-368.2	251	-442.5	140.4	-405.9	3.1	2002.8	1186.6	616.7	101.8	32	180.5
3rd	21.7	522.4	10.8	486.1	29.8	291.3	163.3	-292.5	-346.4	108.5	-40.8	-149.5
4th	12.7	193.3	30.5	251.6	15.6	215.1	195.1	80.6	-1958.4	-1608	-49.5	-22.4
5th	-59.2	32.7	-58.3	71.6	-31.6	63.8	15.4	-67.6	-90.2	-50.6	-23.5	-15
6th	33.1	13.2	45.1	-5.4	39.9	-14.3	45.9	-23.2	-49.4	49.9	-0.4	10.5
7th	13.2	5.6	37	-15.1	35.7	-26.5	-0.3	-9.8	-18.6	12.2	12.4	10.1
8th	4.2	-8	2.3	-21.5	-3.7	-32.6	-107.3	-26.7	100.6	25	8.5	2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	2592.3	1899.8	2723.5	1275.3	3527.4	1739.2						
RMS	901.5	8058.2	948.4	7589.8	6463.6	4515.1						
1/2 P-P	1580.7	11880.5	1643.6	11240.1	9623.7	7973.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	332.5	386.3	-6725.7	-396.6	103.7	5879.3	-8642.1	5145.3	-7291	3431.5	-4988.6	
2nd	823.7	689.4	-1946.6	-905.6	-781.3	2049.3	1222.1	1638.7	1010.3	1006.9	369.9	
3rd	-415.9	-118.5	-280.8	-90.7	405	39.2	222.3	85.3	180	324.4	-98.9	
4th	10.5	58	376	6.7	35.2	152.4	-112.3	-154.2	-192	-1531.7	-598.7	
5th	-5.3	-17.7	75.9	30.6	-53.4	-59.6	142.9	-31.7	100.1	98.6	-23.8	
6th	-9.4	-2	-58.4	10.4	-1.2	27.1	-46.5	14.9	-31.9	-11.2	-28.4	
7th	-0.7	-11.5	-9.1	-18	3.6	15.7	55	7.2	35.1	8.8	-32.7	
8th	-0.5	-7.9	-107.4	-3.9	-3.5	-108.9	-13.6	-94.6	-12.2	-59.7	4.1	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-363.6	-564.3	0	-26.9	-673.5	-79.8						
RMS	3676.2	421.7	0	8430.3	380.6	26						
1/2 P-P	7057.7	723.5	0	12518.1	660.9	46.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2433.7	-3843	-408.7	346.4	0	9347.9	7015.8	-292.1	-392.4	-3.7	33.9	
2nd	674.4	124.8	-3	222.4	0	-1865.7	-1326.2	68.3	-178.1	0.8	-12.2	
3rd	426.9	-203.8	66.1	105.5	0	262.8	185.9	96.7	-42.2	-2.6	4.2	
4th	-2252.7	-609	-40.4	16.5	0	147.8	-69.6	-41.6	11.3	0	0.8	
5th	131	-94.5	17.6	7.8	0	-75	-72.3	-6.7	13.7	0	0	
6th	-41.9	18.1	5.1	2.9	0	-14.4	9.7	-3.9	-4.6	-0.1	0.1	
7th	-2.8	-62.2	-10.5	-4.9	0	16.8	20	-3.7	3.4	0	-0.1	
8th	35.1	33.9	3.4	1.7	0	-106.1	-23.5	2.4	2	0.1	0.1	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-973.4		-310.6		77.2		199.8		189.9		-304.9	
RMS	1041.9		606.8		332.2		502.5		587		994.8	
1/2 P-P	2385.2		1430.9		719.6		1064.7		1173.8		1766.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	524.8	-88.6	344.8	-153.5	281	-301.6	318.1	-490.2	355.5	-554.5	672.4	-901.2
2nd	-446	-1202.8	-236.9	-684.6	-75.5	-114.6	31.3	252.8	65.3	357	83.9	737.2
3rd	-271.5	153.7	-145.2	69.4	-4.1	-14	104.8	-73.2	149.2	-85.5	375	41.3
4th	-144.4	-39.1	-59.3	-16.9	37.1	25.7	106.3	51.2	124.7	53.4	48	45.4
5th	-127.5	43.1	-39.9	11.2	72.7	-21.1	170.5	-57.2	195.8	-73	-14.4	50.2
6th	-19.8	-70.4	2.8	-24.8	25.5	36.4	37.3	91.4	38.3	98.8	-6.3	-42.2
7th	27.1	-48.4	11.1	-20.3	-16.8	14.6	-44.1	45.5	-48.6	52.3	76.3	-33.2
8th	-33.6	14.1	7.3	3.1	64.3	-8.7	95.5	-17.3	83.2	-23.2	-100.2	5.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-557.4		-701.8		-552.2		-7880.2		-2568.8		-481.9	
RMS	917.3		778.8		510.1		3206.4		1476.8		341.3	
1/2 P-P	1705.3		1720.4		1261.3		5963.9		3356.4		594.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	472.8	-824.9	248.5	-601.9	-81.7	-175.5	-4109.3	-1098.7	-1531.7	271.9	219.2	-368.4
2nd	133.3	536.6	92.4	317	-22.9	37.4	463.4	1321.6	63.6	-35.6	-35.9	195.6
3rd	418.6	187.3	452.8	214.8	357.5	145.3	-93.6	-206.1	346.8	137.9	22.5	-44.2
4th	-244.1	-48.2	-326.2	-14.8	-224.5	57.1	42.6	-41.1	-497	852.7	41	56.7
5th	-379.4	96.9	-496.2	82.3	-386	76.1	185.1	-97.8	-566.6	125.4	-32.4	-0.1
6th	-46.8	-88.7	-14.8	-104.8	5.6	-77.8	14.4	103.2	-27.6	-213.4	-0.4	-13.6
7th	-2	-22.2	-36.9	49.4	-2	64.3	33.9	-9.4	-61.6	17.8	8.5	-7.5
8th	60.1	-9.1	96.4	-63.6	96.8	-44.6	-113.9	110.9	86	-108.8	12.6	-3.5

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-1065.4	-5355.9	-1021.8	-5928.3	-2791.2	0						
RMS	1328.5	3677.3	1485.7	4064	3390.8	0						
1/2 P-P	2907.6	6714.7	3243.9	7302.5	6198.5	0						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	409.1	1210.1	927.4	-4842.5	-1484.4	210.3	5359.1	1145.9	4483.2	1028.2	0	0
2nd	452.7	1228.3	-450.3	-1451.5	-473	-1309.7	460.6	1550.5	344.6	1204.5	0	0
3rd	140.1	221.1	-169.3	124.8	241.6	-167.9	110	206.1	68.1	123.3	0	0
4th	-118.8	-22.6	182.4	-30.6	-131.8	-73.4	77.4	58.8	-28.3	145.4	0	0
5th	-67.3	-118.5	96.5	135.9	55.2	-110.7	-106.3	170.9	-38.5	99	0	0
6th	10.9	64.7	0.7	-110.6	-32.4	-55.4	15.4	100.8	11.7	51.9	0	0
7th	-32.7	-35.1	33.4	-69.8	-38.5	50.8	-15.8	-77.7	-12.8	-61.6	0	0
8th	-40.7	27.6	-91.4	105	-24.9	48.7	-106.9	107.4	-98.8	87.3	0	0
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1754.7	-479.4	-877	-7224.1	-540.7	-63.5						
RMS	1961.4	390.2	1229.9	3645.1	345.7	60.8						
1/2 P-P	3932.4	663.1	2844.9	6510.9	616.6	106.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2389.5	-179.4	-235.1	426.4	-198.2	-961.8	-1186.4	4746.2	-371.6	67.6	-42.8	
2nd	138.2	143.4	-33.6	227	433.9	1263.5	-402.2	-1426.4	53	-186.4	19	
3rd	-280.7	-208.7	-20.6	72.5	-187.2	-312.6	198	-51.9	52.1	7.6	-2.2	
4th	-622.2	750.1	41.5	77.2	-149.8	-42.6	23.5	33.8	41.3	61.8	13.3	
5th	485.5	-301	18.1	9.6	81.3	95.2	-122.3	-163	-9.5	22.7	1.6	
6th	40.3	-203	2.2	-3.8	26.4	65.8	-23.2	-52	-0.7	9.3	-1.6	
7th	12.7	55.3	-4.2	5.8	49	33.7	3.8	-6.6	3.2	9.2	-1.9	
8th	60.8	-20.6	11.8	-4.3	-30	47.2	-102.4	111.1	12.9	-4.4	0.4	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-388.5		73.8		264.9		423.5		331.3		-122.3	
RMS	1100.2		637.6		317.1		448		548.7		978.3	
1/2 P-P	2187.6		1278.9		650.8		914.8		1035.7		1701.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	339.2	-61.5	227.6	-134.9	241	-302.6	289.7	-459.7	343.8	-533.9	644.7	-931.9
2nd	-662.5	-1330.4	-363.3	-763.1	-126.5	-135	19.5	252.2	61.4	380.7	132.2	695.6
3rd	-160.3	-56.9	-80.3	-43	-0.4	-28.2	73	-24.4	108.5	-19.3	332.4	78.2
4th	-93.8	-47.3	-37.5	-21.2	24.1	21.5	70.8	45.4	85.3	51.5	27.5	31.6
5th	-9	66.6	7.3	21	33.8	-38.7	51.9	-88.5	50	-104.9	7.3	40.9
6th	-8.1	-20.4	5.4	-2.7	23.4	20	30.4	38.9	27.1	39.4	-36.1	-6.9
7th	20.1	-17.2	6.9	-0.1	-14.2	22.4	-33.3	40.7	-35.9	39.3	26.3	-64.7
8th	-14.6	11.7	8.1	9.5	40.4	4.9	56.2	0	47	-7.9	-48.3	44
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-464.8		-685.3		-612.5		-5206.4		-2420.7		-559.4	
RMS	886.8		705.7		435.8		3468.5		1591		399.7	
1/2 P-P	1527.7		1479.4		1118.8		6407.8		3231.8		652.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	549.1	-841.2	291.5	-645.9	-98.2	-224.3	-4475.9	573.2	-1610.6	664.7	286.6	-404.7
2nd	0.3	509.2	-39.7	281.4	-126.7	-13.9	902.5	1605.5	165.3	70.1	-36.5	255.7
3rd	376	247.9	427.5	261.2	364.9	153	-100.7	-183.1	285	240.4	-43.9	-29.9
4th	-193.2	10.9	-257.2	50.7	-180.5	102.5	89.7	-16.9	-1064.6	397.5	9.2	51.7
5th	-120.1	160.8	-168	152.7	-161.3	106.5	25.3	-144.8	-143.3	282.3	-14.1	-14.2
6th	-7.2	-32.7	31.4	-46.4	35.6	-55	8.6	48.4	42.3	-95.3	9.1	-2
7th	5.6	-2.8	-12.5	56.9	15.6	61.3	7.9	3.8	-27.5	15	5.4	10.4
8th	35.8	1.8	62.3	-26.4	57.5	-9.4	-79.9	126.7	48.6	-129.3	2	4.7

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-563.1	-2966.4	-477.6	-3551.3	-727.5	-131.3						
RMS	1296.1	4228.8	1442.5	4261.4	3550.4	2547.1						
1/2 P-P	2732.5	7738.6	3071.6	7545	6148.8	4538.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	374.3	1012.2	-785.1	-5583.7	-1254.9	93.3	5621.9	-879.8	4728.6	-674.3	3248.8	-869.9
2nd	627.7	1308.6	-880.9	-1678.4	-652.8	-1424.2	850.7	1702	637.5	1334.4	369.1	533.2
3rd	-56	140.4	-181.9	136.9	164.9	20.9	127.4	207.3	91.9	130.8	-105.7	-166.5
4th	-85	-34.6	204.1	7.6	-94.5	-61.9	82.3	42.4	-96.4	66.3	-898.4	173.2
5th	-104.7	-14.1	145.6	24.8	-7.1	-115.6	36	165.2	28.6	88.8	76.8	-209.2
6th	5.1	20.1	-18.2	-75.2	-8.8	-18.2	27.3	71.1	22.7	43.5	35.5	-81.6
7th	-22.5	-19.8	-10.2	0.3	-27.2	16.3	-44.1	19.7	-43.6	8.2	-20	-6.6
8th	-26.8	26.6	-56.2	125.7	-12.3	23.7	-44.3	118.9	-51.5	109.2	-25.3	70.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1292.5	-562.7	447.4	750.9	-268	-4695.1	-627	-118.7				
RMS	2107	447.4	750.9		1177.4	3775.1	400.3	70.2				
1/2 P-P	4194.5				2441.6	6771.1	673.7	130.4				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2384.2	-863.7	-299.8	460.3	-79	-638.5	446.2	4964.8	-403.5	-297.6	71.8	-56.5
2nd	166.9	205.7	-32.4	292.6	601.8	1373.2	-788.9	-1655.7	61.7	-239.1	-28.9	22.5
3rd	-251.8	-249.4	36.2	62	34.4	-198.3	194.5	-72.8	48.3	-43.2	-6.8	0.8
4th	-1253.6	317.7	20.9	66.9	-104.3	-50.7	61.4	4.2	7.2	49.3	1.6	9.4
5th	72.9	-348.5	9.6	22	109	-10.6	-167.7	-46.4	-19	15.5	-2.6	-2.3
6th	42.4	-136.9	14.5	1.2	17.6	18	5.1	-37.4	-10.7	-1.7	2.1	-0.7
7th	30.2	-35.9	-3.4	-12.8	32.9	21.1	-30.2	29.2	-10.4	1.2	-0.5	2
8th	11.2	-37.6	0.9	2.6	-17.9	28.9	-78.7	127.8	0.2	1.9	-3.4	-2.8

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/11						
MEAN	-3726	-1998.1	-586.9	44.1	32.2	-374.2
RMS	1103.3	629.3	258.5	413.7	517.6	948.2
1/2 P-P	2360.3	1315.7	558.4	958.6	1130.3	1706.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	49.2	134.4	63.5	-10.4	236	-359.6
2nd	-117.1	-1418.4	-28.1	-816.5	291.7	-426.1
3rd	-342.2	341.9	-192.1	182.2	88.2	358.7
4th	-125.8	-88.5	-50.3	-45.3	184.1	-143.9
5th	0.9	128.1	9.7	44.4	98.6	87.8
6th	-8.8	-12.9	1.8	2.4	47	-192.4
7th	29.8	-18.8	13.7	-4.9	23.8	43.8
8th	-22.1	21.6	5.4	11.4	-42.1	24.4
					63	-20.3
						-66.1
						71.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/11						
MEAN	-389.5	-391.3	-126.4	-7068.2	-2681.8	-455.3
RMS	882.9	746.3	516.4	1760.1	597.1	365.9
1/2 P-P	1799.1	1680.9	1412.7	3344.5	1718.3	591.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	385.3	-712	227	-517.3	-482.3	-63
2nd	264	608.5	246.1	371.5	-68.4	-125.2
3rd	485.2	69.5	533.4	129.6	313.2	150.2
4th	-234.3	-111.1	-328.1	-77.7	-190.9	4.5
5th	-92.5	309.6	-155.1	307.1	-225.4	23.3
6th	-27.1	-12.8	38.7	-25	42.4	4.1
7th	-2.2	-30.9	-32.2	33.2	-58.3	10
8th	55	-1.9	78.1	-51.7	99.1	1.3
						2.4
						3

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-3980.8	-4873.7	-3918.5	-5488.3	-2554.9	-898.9						
RMS	1294.1	1919.4	1417.6	2229.2	1815.1	1102.1						
1/2 P-P	2722.8	3358.3	2965.1	3651.7		2161.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	127.8	899	-1813.3	-1089.3	-123.4	2059.8	1955.7	1673.5	1245.6	717.6		
2nd	144.4	1443.1	-1097.5	-108.8	-1527.1	39.2	1198.6	889.1	7.4	288.5		
3rd	388.8	310.1	162.4	364.8	-394.8	152.4	224	138.9	-133.1	-100.2		
4th	-124.7	-93.6	28.5	-135.4	-125.8	70	79.8	69.5	-25.6	70.4		
5th	-154.8	16.5	21.8	-29.9	-155.1	-6.2	158.4	87.2	170.8	-201.6		
6th	22.6	13.4	-3.1	-34.4	-17.1	58.8	-15.6	-12.1	15.1	-36.3		
7th	-16.1	-27.7	28.5	-28.8	25.7	6.2	8.8	10.9	-13.6	25.4		
8th	-60.3	29.8	61.1	-62.3	-1.4	-101.8	69.9	60.4	-47.3	36.2		
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1614.4	-460.2	-3611.9	-6500.9	1874.7	-498.7						
RMS	830.7	420.8	1173.7	1874.7	3387.2	374.5						
1/2 P-P	1831.2	703	2534.9			708.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	939.8	290.9	-208.3	474.9	187.6	-306.1	995.1	-199.9	53.6	-58.1		
2nd	-38.3	-17.1	11	245.3	118.6	1456.6	-1093.9	-213.8	-7.2	13.3		
3rd	-272	-170.8	-22.5	113.1	-382	-408.8	-92.4	12.4	0.7	-5.6		
4th	-58.6	65.8	3	102.8	-141.9	-111	90.3	90.2	3.5	18.1		
5th	212.2	-351.6	-7.4	18.2	153.9	-31.2	-29.7	-8.8	1.6	-3.3		
6th	-8.7	-20.7	6.4	3.4	10	16.1	-35.7	-4	2.4	0.5		
7th	8.6	17.8	-2.5	-5.4	22.3	28.4	31.7	-3.9	-1.5	0.7		
8th	49.1	-22.9	3	4.7	-71	15.5	40.2	4.3	0.8	-1.8		

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2359.9	-1150.6	-242.8	187	138.5	-313.3						
RMS	1114.1	634.7	272.3	438.6	546	967.8						
1/2 P-P	2213.9	1317.8	554	968.4	1108.5	1723.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	17.4	23.2	40.2	-88.1	145.6	-259.9	248.4	-419	307.2	-486.8	556.9	-848.6
2nd	-449.8	-1426.5	-229.3	-820.4	-63.9	-162.8	46.7	239.4	80.6	375.8	246.5	763.4
3rd	-298.1	210.4	-163.4	105.1	-11.1	-2.8	108.4	-82.6	163.5	-113.4	388.7	-147.3
4th	-136.3	-88	-56.7	-43.8	29.3	23.5	90.3	66.3	108.7	80.4	55.7	34.9
5th	-6.1	112.5	5.3	35.7	30.8	-64.1	47.8	-151.7	43.4	-181	-6.5	52.3
6th	-10.1	-14.1	2	2.9	18	27.2	24.5	46.7	23.9	46.4	-42.3	-26.3
7th	19.4	-18.9	9.2	-3.6	-8.7	15.4	-27.1	29.7	-32.9	30.8	37.3	-42.4
8th	-24.1	46.2	3.5	16.4	46.8	-24.4	69.8	-56.6	59	-64	-33.7	119
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-471.5	-544.4	-346.7	-6386.8	-2580.6	-503.5						
RMS	895.3	750.2	491.6	1882.8	914.9	376.8						
1/2 P-P	1706.3	1556.8	1235.3	3504.3	2207.4	632.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	458.6	-756.1	259.7	-557.1	-23.7	-161.5	-1460.7	-840.3	106.6	224.2	-405.5	
2nd	165.6	593.2	130.3	355.3	12.9	25.4	1278.2	19.7	-55	-7.6	242.8	
3rd	458.4	137.1	505.6	185.3	416.5	118.8	-136.4	364.1	150.1	-4.2	-48.9	
4th	-248.4	-65.2	-341.9	-26.6	-251.8	52.3	115.3	-373.9	331.4	33.8	72.1	
5th	-102.4	300.9	-163.5	307.5	-176.3	211.5	-151.7	-151.7	322.3	-4.7	-10.7	
6th	-15.3	-19.6	47.2	-31.3	58	-51.6	30.6	66.8	-112.9	13.4	1.6	
7th	0.1	-21.3	-17.1	39.6	17.9	56.3	1.5	-55.9	-0.9	2	7.9	
8th	48.3	-14.9	75.8	-118.9	66.4	-102.5	-68.6	43.1	-148.7	0.9	1.6	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
MEAN	-2583.8	-4246.3	-2485.2	-4827.8	-1921.9	-636.8				
RMS	1258.1	2410.4	1347.9	2680.4	2200.1	1482.5				
1/2 P-P	2746.3	4469.9	2829.4	4820.2	3919.2	3095.5				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	254.7	835	1073.7	-2880.2	-995.3	7.8	1453.4	2586.1	1258.7	395.3
2nd	462.4	1396.4	-437.4	-1305.8	-427.2	-1477.7	388	266.2	1068.2	375.1
3rd	243.5	259.3	-167	170.1	301.5	-252.5	160.1	103.5	107	-140.2
4th	-120	-83.5	112	8.5	-129.9	-104.6	87	26.8	86.5	192.7
5th	-148.2	23.1	162.1	-5.6	-25.4	-168.8	9.9	14.4	98.6	-273.5
6th	24.8	16.6	-16.8	8.3	-20.2	-20.3	41.9	36.7	-7.5	-64.5
7th	-13.7	-19.4	29.8	-6.7	-15.6	24.5	11.7	4.9	-11.2	7.2
8th	-43.9	49.5	-54.6	160.3	-35.3	30.1	-65.7	-68.1	144.2	81.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
MEAN	-1494.6	-505.3	-2227.2	-5856	-557.9	-125.8				
RMS	1216.3	428.7	1156.9	2107.5	381	63.3				
1/2 P-P	2887.4	715.2	2354.4	3624.5	648.2	126.8				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$	
1st	1424.2	40.2	-245	464.7	77.4	-302.2	-1617.6	-408.6	-238.3	-58.8
2nd	36.8	55.4	-5.2	271.6	415.2	1455.3	-375	20.8	-233.6	16.6
3rd	-330.1	-202.8	5.5	86.2	-253.5	-334.4	203.8	56.6	-8.5	-2.9
4th	-284.2	255.5	24.8	92.1	-146	-93.7	106	36.4	74.4	16
5th	129.4	-462.3	-0.5	15.9	150.3	-32.7	-164.1	-15.1	-0.4	-3.2
6th	-2.1	-62.3	11.4	3.3	7.7	19.9	-35.5	-12.3	-3.1	-0.1
7th	5.5	10.6	-0.4	-9.7	24	20.1	1.5	-7.7	-1.7	0.6
8th	34.3	-58.3	1.5	1.2	-32.8	40.2	-75.9	1.9	-0.7	-3

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/13						
MEAN	-1087.2	-357.8	96.7	354.3	282.4	-159.6
RMS	1025.5	597.2	284.6	417.6	511.3	905.5
1/2 P-P	1979.3	1157.5	596	865.7	965.6	1704.7
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-215	-118.9	-227	81.5	-317.8	216.4
2nd	-1233.3	-225.5	-705.7	-80.6	-125.6	12.5
3rd	130	-94.1	59.7	1	-15.7	80.6
4th	-59.7	-34.8	-26.2	31.1	25.3	77.4
5th	32.5	-17.1	7.6	54.5	-19.1	114.6
6th	-20.8	3.6	-1.4	21.7	26.7	30.1
7th	-25.4	12.2	-7.2	-14.8	15.7	-38.9
8th	40.8	8.9	12.3	43.7	-26.5	61.5
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/13						
MEAN	-441.1	-623	-524.9	-5785	-2562.8	-534
RMS	845.1	704.8	452.4	2105.6	1113.7	373.3
1/2 P-P	1546.2	1422.8	1080.8	4512.1	2551.1	631.5
HARMONIC	SINE	COSINE	SINE	COSINE	SINE	COSINE
1st	-792.5	267.1	-606.2	-200	-2399.9	268.2
2nd	508.5	-14.3	303.4	22.2	667.7	1265.4
3rd	189.1	357.5	224.4	145.6	-122.1	-200.2
4th	-51.1	-301.2	-23.5	48.9	64.9	-0.6
5th	65.7	-364.6	50.1	-308.8	90.9	-87.7
6th	-43.1	2.6	-52	39.2	-315.8	78
7th	-12.8	-28.7	39	-32.1	62.2	-98.9
8th	-15	65	-104	34.9	-50.3	6.5
				-30.4	-3.7	1.8
				133.6	-141.8	0.7
						2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
14/13												
MEAN	-1274.9	-3433.3	-1182.8	-4064.3	-1225	-411.3						
RMS	1113.8	2916.9	1213.6	3086.2	2563.8	1820.1						
1/2 P-P	2334.1	5909.3	2727	6209.7	5008.1	3581.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
1st	493.4	491.9	-501.8	-3677.5	-716.4	225.2	3929.6	-258.4	3311	-163.7	2342.3	-501.2
2nd	402.1	1237.7	-629.1	-1412	-434.9	-1367.2	599.3	1558.6	440.3	1216.9	256.1	498.8
3rd	122.5	135.6	-142.7	157.8	168.2	-161.2	143.7	184.4	86	110.5	-185.7	-129.4
4th	-91.5	-69.5	173.3	10.3	-120.5	-100.1	85.5	67.3	31.7	73.8	-182.4	119
5th	-57.6	-98	89.4	108.9	46	-81.9	-59.4	124.5	-10.8	72.3	255.3	-117.8
6th	20.7	25.3	-7.7	-27.9	-29.6	-34.4	22.7	62.2	23.9	36.7	32.7	-87.1
7th	-20.5	-24.2	26	-26.2	-31.2	28.3	-6	-16.6	-6.6	-15.6	-1	-3.3
8th	-36.9	37.9	-4	138.5	-21.9	26	-12.8	127	-22	117.8	-1	64.1
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
14/13												
MEAN	-1450.3	-535.8	-1001.9	-5031	-595.6	-119.1						
RMS	1480.9	422.7	1041.4	2390.3	376.7	63.6						
1/2 P-P	3043.7	710.8	2077.6	5045.2	642	118.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	1755	-580.6	-276.4	447	-200.5	-102.8	114.7	2883.7	-389.1	-274	56.1	-61.3
2nd	100.6	188.6	-32.8	266.4	408.3	1279.6	-603.6	-1370.9	54.5	-221.3	-23.1	20.3
3rd	-367.2	-169	14.2	60.4	-140.8	-239.2	176.9	-98.5	39.8	-21.2	-3.9	0
4th	-268.7	165.4	23.1	60.2	-119.7	-80.4	54.5	46.1	16.2	45	3.8	9.4
5th	361.8	-232.7	8.4	11.7	77.8	66.7	-108.5	-105.5	-9.1	14.6	-2.8	-0.7
6th	29.3	-134.5	8.2	0.7	11.5	19.6	5.8	-39.2	-7.2	-1.3	1.4	0.3
7th	18.7	0.8	-0.7	-11.6	23.8	22.4	6.6	6.2	-8.6	-0.4	-0.4	0.5
8th	13.5	-44.7	-0.2	2	-22.8	37.8	-27.5	121.2	1.5	0.4	-1.8	-3.3

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
MEAN	-586.1	-45.5	222.5	411.2	328.4	-114.6
RMS	1076.8	625.6	308.9	434.1	532.1	960.3
1/2 P-P	2117.8	1249.8	620.9	861.4	993.6	1689
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	214.5	-143.4	200.3	-312.8	319.5	-516.2
2nd	-608.5	-1336.6	-118.3	-141.1	244.1	372
3rd	-189.6	9.6	-2.3	-23.6	80.6	-48.9
4th	-92.5	-62.9	25.9	20	69.3	83
5th	-45.5	38.4	43.7	-28.3	83.8	91.1
6th	-17.6	-23	20.4	21.3	31.1	42
7th	16.7	-18.9	-19.6	22.5	-39.7	40.4
8th	-12	32.6	44.7	-19.7	60.1	-43.5
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
MEAN	-443	-659.6	-589.9	-4989.4	-2468.2	-556
RMS	885.4	711	442	3216.6	1385	399.3
1/2 P-P	1526.1	1462.9	1156	5991.7	2733.9	668.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	534.6	-843.3	289.9	-644.8	-1496	697.8
2nd	14.9	528.3	-22.8	305.6	124.5	99.4
3rd	364.1	219	409.6	236.9	372.1	255.5
4th	-193.9	-0.7	-262.1	37.4	-741.3	173.6
5th	-201.4	103.8	-271.4	93.6	-260.7	168.3
6th	-22.7	-28.5	18.6	-35.3	25.5	-11.5
7th	1.9	-1.2	-21.8	62.7	-21.4	8.4
8th	34.7	-7.8	60	-80.9	-54.4	14.1
			53.8	20.2	-163.9	3.6
					1.5	2.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	-773.7	-2775.5	-641.7	-3481.5	-708	-191.4						
RMS	1260	4029.9	1350.7	4055.7	3376.9	2368.9						
1/2 P-P	2673.4	7148.5	2763.5	6998.5	5700.6	3979.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	451.3	922.7	-5266.1	-1125.8	195.9	5321.7	-925.2	4476	-708.8	3050.8	-870.7	
2nd	589.4	1298.3	-1670.6	-578.4	-1385.6	781.5	1700.9	581.2	1341.7	322.6	555	
3rd	27.7	142.9	152.8	169.2	-33.2	140.5	190.2	93.3	122.3	-150.3	-137.3	
4th	-80.8	-49.3	-1	-91.5	-68.4	91.5	25.4	-48	48.2	-662.6	131.4	
5th	-83.7	-46.6	57.8	25.6	-104	-6.6	166.6	7.9	88.8	141.6	-206.8	
6th	10.1	20.5	-71.1	-3.2	-21.3	28.1	83.4	24.2	50.3	23	-104.4	
7th	-20.6	-23	-3.2	-21.5	17.6	-56.3	19.8	-51.7	5.4	-17.5	-15.6	
8th	-30.4	44.4	155.7	-11.5	33.8	41.5	155.1	26.6	147	12.8	83.6	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-1364.7	-556.7	-441.1	-4506.1	-620.6	-121.1						
RMS	1897.4	445.3	1116.8	3492.9	399.1	69.9						
1/2 P-P	3518	727.4	2294.5	6235.9	666.5	132.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2226.7	-855.7	-297.3	456.4	-500.3	632.1	4535.3	-401	-295.9	69.1	-59	
2nd	136.1	231.6	-37.4	294.2	1351.4	-732.8	-1616.6	67.8	-241.2	-29.2	22.6	
3rd	-319.1	-192.8	34.7	68	-222.2	204.6	-89.4	51.1	-35.5	-5.4	0.4	
4th	-934.7	248.4	24.5	65.8	-60.9	62.4	46.9	12.7	47.7	3.5	9.5	
5th	172.2	-365.9	8.3	17.1	109.3	-162	-86.5	-14.4	13.8	-2.3	-1.8	
6th	18.6	-168.5	12.1	1.5	21.5	15.6	-51.6	-9.2	-2.2	1.6	-0.5	
7th	26.2	-37	-2.3	-13.4	18.4	-30.9	23.1	-11	-0.4	-1.2	1	
8th	-26.4	-57	-0.2	0.9	39.5	10.2	162.5	0.5	-0.1	-2.8	-3	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	147.5		408.4		405.3		488.9		387.8		-61.9	
RMS	1118		644.1		291.4		434.8		540.4		985	
1/2 P-P	1974.8		1209.4		583.5		856.9		965.4		1686.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-221.7	-111.6	-114.8	-159.6	102.9	-316.1	241.6	-459.4	315	-532	660.7	-943.2
2nd	-780.5	-1315	-436.9	-753.9	-163.7	-125.7	0.4	262	48.4	389.8	100	687.4
3rd	-143	-88.6	-69.9	-62.8	-1.7	-37.5	65.7	-31.2	97.6	-23.5	327.8	96.6
4th	-79.2	-33.7	-31.5	-11.2	18.8	24.4	56.8	42.2	69.4	44.7	4.5	21.5
5th	-35	58.1	-3.4	17.7	40.9	-33.5	74.3	-77.1	78.3	-91.8	13.8	28.8
6th	-3.6	-20.1	8.3	-0.3	24.3	25.7	28.6	46.3	24.9	44.8	-36.2	-14.5
7th	24.9	-22.1	11.6	-3	-9.4	22.2	-30	40.4	-35.1	39.2	18	-64.4
8th	-12.7	36.9	11.1	10.1	43.4	-28.9	58.9	-59.4	44.9	-62.3	-18.8	111
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-445.7		-706.8		-673.8		-4514.6		-2387.9		-581.8	
RMS	915.7		736.3		455.3		3602.8		1701.2		419	
1/2 P-P	1561.9		1432		1039.8		6658.3		3685.6		666.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	580.4	-879.1	310.2	-685.2	-107.5	-245.3	-3951.7	2329.6	-1595.6	1111.5	324.1	-404.9
2nd	-85.1	509.1	-142.4	285.3	-215.4	-8.7	1300	1630.8	263.1	89	-38.8	271.7
3rd	363.5	263.8	412.5	271.3	354.7	151.4	-80.6	-234.8	271	269.5	-50.6	-30.3
4th	-157	20.5	-203.6	62.2	-137	111.3	99.3	-19.3	-1088.8	434.4	-2.3	44.5
5th	-192	151.8	-255.9	162.6	-220.5	127.4	13.9	-103.9	-154.2	177.9	-24.5	-12.6
6th	-6.7	-35.9	26.9	-43	32.2	-44.3	4.8	57.4	30	-126.9	6.9	-5.8
7th	9.8	2.3	2	55.6	26.3	59.7	22.5	-43.6	-33.6	64.8	6.8	10.9
8th	31.3	-15.3	59.9	-100.7	60.8	-90.2	48.1	128.6	-83.7	-125	1	3.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-17.8	-2306.6	107.8	-2902.8	-173.6	37.7						
RMS	1142.5	4331.9	1251.9	4284.3	3599.8	2622.3						
1/2 P-P	2227.2	7854.8	2519.9	7439.8	6054.1	4404.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
1st	396.1	450.4	-5191.3	-694.4	122.8	5125.9	-2366.1	4376.2	-1943.7	3041.8	-1651.1	
2nd	724.6	1276.6	-1690.7	-760.2	-1401.7	1199.9	1753.1	924.6	1382.9	549.6	535.2	
3rd	-96.8	109.4	121.1	137.7	72.9	136.4	230.4	98.1	148.6	-95.1	-168.1	
4th	-67.8	-23.1	-46.1	-73.2	-47.8	65.2	32.9	-109.9	68	-894.2	213.1	
5th	-93.5	-24.1	7.9	13	-116.7	33.7	115.9	27.3	57.3	66.2	-181.4	
6th	5.3	17	-45.3	-5.1	-17	28.4	65.3	20.7	37.5	4.8	-86.8	
7th	-16.9	-22.5	-28.4	-29.3	19.5	-27	-8.9	-31	-16	-25.1	-16.6	
8th	-23.1	40.5	127.3	-5.7	32.7	23.7	106	16	104.6	3.2	76.3	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-1262.1	-581.7	279.1	-4060.7	-652.1	-115.7						
RMS	2190.4	466.9	1107.9	3862.5	419.5	65.7						
1/2 P-P	4268.1	754.6	2053.8	7102.6	680.6	123						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
1st	2280.3	-1410.8	-338.7	461.2	-123.9	2162.1	4528.2	-402.6	-336.6	61.1	-56.1	
2nd	291.7	205.1	-33.9	312	709.2	-1159.7	-1691.7	68.4	-253.3	-30.5	25.6	
3rd	-239.7	-243.6	42.4	57.3	66.6	241.8	-49.1	49.1	-43.6	-7	-0.6	
4th	-1241.3	392.5	14.4	59.7	-93.9	38.9	19.2	-3.5	43.7	-0.2	7.2	
5th	65.1	-292.5	14.9	19.1	94	-155.2	-13.9	-17.3	23.1	-4.1	-2.6	
6th	8.2	-138.4	11.6	-1.8	8.4	1.8	-51.2	-8.1	2.3	1.8	-1	
7th	2.6	-19.4	-6.7	-13.8	26.6	6.5	-11.1	-10.1	3.2	0.7	2.1	
8th	-22	-26.3	1.2	2.1	1.5	35.9	120.2	-0.4	1.7	-4.2	-1.4	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
14/16						
MEAN	1544.7	1277.3	756.5	655.1	522.9	87.3
RMS	1162.8	684.4	363.3	479.3	576.1	1022.5
1/2 P-P	2235.7	1358.2	672.9	876.7	1076.1	1629.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	4.2	-389.3	174.6	-396.2	275.4	-500.5
2nd	-954.5	-1215.9	-209.7	-102.8	-21.1	262.5
3rd	-137.7	-255.5	-62	-56.9	68.3	7
4th	-65.8	38.5	7.6	19.1	41.7	16.6
5th	-145	38.1	82.6	0	193.8	-5.4
6th	-7.8	-39.4	25.2	28.3	32.4	59.3
7th	21.7	-2.4	9.1	24.6	-22.2	35.1
8th	-13.7	34.8	17.7	-11.2	83.7	-34
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
14/16						
MEAN	-400.4	-751.6	-812.2	-2881.2	-2348.5	-655.3
RMS	1053.1	912.6	587.9	6560.3	2705.1	439.3
1/2 P-P	1957.8	1999.8	1325.1	10592	5417.2	816.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	655.4	-1007.9	348.7	-819.3	-2178.8	2303.2
2nd	-235.8	418.9	-312.3	216.9	622.1	84.7
3rd	292.6	414.1	324.3	400.6	-168.2	336
4th	-128.5	88.5	-157.1	129.4	-1840.1	49.1
5th	-490.5	24.7	-615.6	41.6	-334.5	-3.5
6th	-4.8	-56.3	12.1	-46.1	-0.4	-169.7
7th	16.5	23.9	18.2	68.8	-6.6	74
8th	29.9	1.6	95	-51.2	-55	-144.5

RUN/POINT 14/16	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	1441.4		-749.6	1618.7	-1373.5		1173.5		499.8				
RMS	1279.2		6894.7	1395.8	6188.2		5233.7		3820.4				
1/2 P-P	2423.1		10912.8	2821.2	9872.9		8010.7		6507.1				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	660.7	678.3	-6345.7	-6921.8	-931	356.2	6019.5	-5778.8	5191.6	-4842.2	3591.7	-3561.3
	2nd	842.2	1211.8	-1804.5	-1794.8	-947.5	-1346.3	1744.7	1885.2	1368.7	1491.5	864	507.2
	3rd	-307.3	101.4	-287.6	-49.7	126.6	283.7	85.5	206.7	106.2	129.1	149.5	-259.3
	4th	-61.6	43.8	296.6	55.7	-70.9	3.1	67	38.5	-203.9	74.4	-1401.9	296.5
	5th	-43.8	-165.9	62.7	98.8	139.5	-78.5	-69.7	204.1	-15.8	138.8	263	-59.1
	6th	10.9	19.6	-31	-54.2	-11.1	-29.1	0.8	33	11.2	2.7	52	-117.2
	7th	-7.2	-13.4	-87.1	25.9	-20	11.5	3.2	38.5	-8.8	22.5	-14.9	-33.2
	8th	-11.9	58.9	28.2	115.1	-16	52.1	44.4	113.1	30.2	115.6	-6.1	86.1
RUN/POINT 14/16	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-1169.6		-640.3	1705.1	-2535		-726.8		-110.8				
RMS	3213		483.3	1177.5	6964.4		435.5		60				
1/2 P-P	6162.4		835.5	2341.6	11223		794.8		116.9				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	2671.8	-2858.2	-442.3	400	-467	-306.7	6213.5	7108.3	-325.1	-431.7	67.3	-29.2
	2nd	570.5	119.5	45.8	285.3	843.4	1247.1	-1833.9	-2013.1	-6.6	-231.7	-17.1	27
	3rd	135.1	-364.4	69.2	127.9	262.4	-183.5	267.3	135.1	154.2	-28	-2.6	-20.7
	4th	-1950.4	581	-38.2	10	-85	1.8	58.6	-65.2	-52.3	-20.2	-10.8	-7.3
	5th	373.6	-171.4	46.8	30.8	76.8	139.5	-93.2	-81.8	-34.4	56.2	-9.7	-5.2
	6th	59.9	-144.6	4.1	-5.7	19.2	35.9	20.3	-49.9	-1.1	3.9	-0.2	-0.8
	7th	-0.4	-81.2	-8.9	-15.2	14.8	21.3	20.7	5.8	-13.3	3.9	1.6	2.9
	8th	-48.5	-27.5	4.5	6.2	-16.9	52.7	11.6	140.8	4.7	5.9	-6.2	1.5

[illegible]

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
35/28												
MEAN	-3598.6		-4662.9		-3620.9		-5065.8		-2131.3		-625.4	
RMS	1031.3		1582.4		1171.4		2128.1		1740.6		1037.9	
1/2 P-P	2302.3		3109.3		2700.3		4217.4		3405.8		2545.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	238.8		312.3		-1322.5		15.8		1889.5		1793.3	
2nd	445.8		1217.3		-990.2		-1334.5		436.2		1176.8	
3rd	262		205.1		-102.4		187.2		187.2		183.2	
4th	-129.7		-66.4		163.2		27.4		-151.7		40.4	
5th	-140.5		73.5		167.6		-46.4		78.4		177.1	
6th	6.3		15.3		-14.1		-10.5		25.2		5.1	
7th	-29		-20.6		6.1		-48.3		-4		-44.6	
8th	-49.2		53.2		-39.7		157.3		-48.3		161.4	

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
35/29						
MEAN	-2185.5	-1022.3	-181.1	0	191.6	-177
RMS	1032.9	593.4	246.7	0	464.8	817.2
1/2 P-P	1991.4	1171	564.8	0	916.2	1357.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-617.3	-85	-349.1	-146	-275.7	0
2nd	-531.7	-1147.6	-282.4	-659.3	-118.1	0
3rd	-206.2	78.5	-112.2	34.9	-6.5	0
4th	-99.5	-41.6	-40.3	-21.7	16.1	0
5th	48.5	79.8	27	24.2	9.6	0
6th	-13.8	-15	2	-3.5	23	0
7th	13.3	-24.2	5.8	-7.7	-8.5	17.7
8th	-2.2	32	9.3	8	26.4	-26.9
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
35/29						
MEAN	-379.4	-498.6	-371.7	-5837.1	-2251.7	-525.8
RMS	756.9	621.6	401.3	1051.3	716	364
1/2 P-P	1407.8	1242.5	970.5	2306.6	1630.1	598.7
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	390	-690.5	221.3	-515.4	-470.5	-448.2
2nd	91.7	476.3	49.6	285.8	-38.1	24.8
3rd	381.2	157.4	417.4	186.9	342.4	116.6
4th	-204.9	-6.5	-280.6	31.5	-211.9	79.5
5th	22.1	211.9	-5.1	216.8	-53.6	151.2
6th	-19.1	-22.1	25.7	-37.5	38.7	-50.7
7th	0.5	-8.6	-10.7	49.5	15.8	58.2
8th	29.7	-16.5	20	-81.8	11.7	-68.4
				72.8	-99.8	182.5
				-48.5	176.7	268.8
				36.2	43.5	3.3
				-125.8	21.9	8.2
				20.9	-28.7	-81.1
				6	-34	41.4
				-33.8	-47.8	-185.8
				350	205.7	-405.2
				-95.1	5.3	226.6
				112.3	-30.5	-20
				176.7	43.5	57.9
				35	3.3	-4.1
				-95.1	8.2	-0.2
				112.3	1.4	8.1
				-30.5	-3.1	0.9

RUN/POINT 35/29	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2332.2	96.2	-3562.9	-1770.6	-2318.5	166.3	-3966.5	714.3	-1159.3	631.1	-200.3	32.1
RMS	993.2	1155.4	1624.5	-660.2	1069.4	-1270	2000	1246.4	1637.1	960.6	1126	341
1/2 P-P	1943.8	176.7	3498.3	-103.9	2199.9	-127.6	3831.1	153.6	3101.9	96.9	2399.6	-95.6
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	371.7	96.2	252.9	-1770.6	-355.2	166.3	2242.5	714.3	1873.6	631.1	1370.1	32.1
2nd	561.9	1155.4	-660.2	-1074.4	-564.4	-1270	684.7	1246.4	512.6	960.6	275.5	341
3rd	73.3	176.7	-103.9	188.2	207.4	-127.6	173.1	153.6	122	96.9	-104.4	-95.6
4th	-88.7	-50.6	153.8	-20.5	-106.7	-74.1	101.8	16.7	6.7	58.5	-389.7	204.8
5th	-121.2	65.2	165.4	-54.7	-86.5	-153	86.4	185.7	42	99.8	-44.9	-259.1
6th	7.7	18.2	-9.4	-13	-22.6	-16.5	24.4	13.8	18.3	1.7	-23.1	-54
7th	-25	-14.7	-3.4	-40.3	-16.3	24.8	-19.7	-35.1	-18.2	-29.7	-22	-4.4
8th	-10.5	42.4	86	163.8	-3.4	40.8	74.6	170.5	58.2	154.8	25	96.1
RUN/POINT 35/29	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1138.9	-186.4	-524	463	0	0	-5270.3	1023.9	-578.5	-221.4	-103.4	-64.8
RMS	1002.3	69.3	414.1	258.2	0	0	1307.6	-1061.2	368	-223.5	57.2	23.7
1/2 P-P	2133.3	-135	672.8	48	0	0	2694.3	-125.2	617.1	-33.7	112.5	0.7
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1052.5	-186.4	-222.8	463	0	0	-638.3	1023.9	-404.5	-221.4	33.9	-64.8
2nd	119.4	69.3	16.7	258.2	0	0	-657.9	-1061.2	2	-223.5	-18.2	23.7
3rd	-224.6	-135	37.2	48	0	0	151.1	-125.2	23.1	-33.7	-3.9	0.7
4th	-546.2	336.9	47.8	73.6	0	0	63.3	23.4	51.8	56.9	9	11.9
5th	-110.7	-442.6	-3	10.8	0	0	-158.8	37.5	-10.7	-4.2	0.7	-0.2
6th	-12.1	-80.4	10.1	2.4	0	0	-21.3	4.2	-9.3	-2.1	1.2	0.4
7th	13.8	26.3	0.4	-9.2	0	0	-17.6	-24.1	-7.7	-1.1	-1.5	-1.3
8th	-24.1	-58.5	-1.6	0	0	0	63.3	172.8	-2.3	-0.5	2.2	-2.8

RUN/POINT 35/30	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1069.6		-2153.4		-1022.4		-2639.1		22.7		318.3	
RMS	982.4		2802.1		1059.7		2938.3		2445.2		1814.3	
1/2 P-P	1918		5500.4		2134.1		5768.4		4600.1		3509.1	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	323.5	282.6	-1155.7	-3350.4	-499.1	115.8	3645.6	-729.7	3082.8	-574.3	2133.5	-775.8
1st												426.8
2nd	709.8	1080.8	-1082.8	-1276.3	-721.1	-1175.3	1039	1413.5	797.7	1116.5	440.8	-98.2
3rd	-77.2	82.9	-127	165.9	119.1	28.6	133.5	156.5	97.1	106.1	-95.5	197.8
4th	-74.3	-36.6	197.8	-42.1	-93.7	-66.7	109.2	-6.2	-41.9	42.5	-720.7	-232.3
5th	-85.5	58.5	124	-51.7	-67.3	-117	74.1	192.4	30.5	111.4	-59.1	-48.6
6th	-7.5	13.1	0.5	-25.9	-0.4	-15.3	5.1	52.2	2.3	30.1	-10.5	-16.1
7th	-15.8	-16.5	-42.4	-35.8	-13.5	15.3	-39.1	4.1	-35.1	-4.4	-23.2	130.8
8th	-16.9	47.4	128.2	229.2	0.4	46	132.2	245.2	107.4	228.5	54.7	
RUN/POINT 35/30	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-907.5		-561.7		0		-3915		-625.3		-100.9	
RMS	1630		427.7		0		2248.1		383.9		59.3	
1/2 P-P	3533.6		712		0		4594.7		650.6		116.4	
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1587.2	-779.4	-265.6	454.4	0	0	848.9	2558.6	-398.3	-267.7	42.3	-60
1st												26.8
2nd	222.5	135.3	-5.8	278.4	0	0	-1029.2	-1208.9	33.6	-236.1	-27.1	1
3rd	-200	-144.7	54.3	46.2	0	0	164.8	-98.8	31.6	-49.9	-5.5	9.5
4th	-1016.7	375.4	37.1	63.6	0	0	71.4	11.9	32.3	47.7	5.5	0.4
5th	-120.5	-403.6	1.9	6.9	0	0	-130.8	27.7	-5.1	3.3	0	-0.8
6th	12	-92.7	9.5	1.7	0	0	9.5	-2.8	-5.9	-1.2	1	-1.2
7th	15.1	-10.1	0.6	-8.8	0	0	-9.1	-12.2	-7.2	-0.3	-1.5	-2
8th	-39.9	-81.2	-1.8	-0.8	0	0	100.1	247.8	-1.9	-2.1	-0.2	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-229.5		195.7		318.7		0		371.6		-13.7	
RMS	1011.7		581.6		275.7		0		500		892	
1/2 P-P	1764.1		1076.7		549.1		0		872.6		1507.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-82.6	-57	-33.2	-121.9	114.9	-302.2	0	0	278.1	-523.1	628.9	-848.9
2nd	-839.8	-1121.6	-471.3	-642.7	-166.2	-96.8	0	0	78.3	348.7	30.8	621.6
3rd	-74.3	-166.3	-34.2	-101.7	-4.5	-32.2	0	0	57.7	19	208.1	204.7
4th	-72.6	-29.5	-28.5	-16	21.2	9.9	0	0	63.4	27	-7.4	24.8
5th	20.3	22.8	14.5	1.3	9.4	-28.9	0	0	-8.4	-55.5	-6.6	24.7
6th	1.3	-15.3	8.7	-4.3	19.3	9.1	0	0	19.6	20	-23.5	-10.5
7th	12.6	-17.5	5	-5.2	-6.2	14.5	0	0	-22.6	33.7	33.4	-30.2
8th	6.4	13.7	12.4	4.2	18.7	-13.2	0	0	7	-19.6	-15.5	28.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-379.2		-642		-625.1		-3583.3		-2000.6		-582.5	
RMS	810.5		630.6		373.5		3323.7		1579.2		403.1	
1/2 P-P	1402.4		1230.4		867.1		6165.3		3266.9		678.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	479	-825.6	250.1	-632.5	-107.2	-212	-3608.4	2196.9	-1361.7	1112.4	280.7	-406.3
2nd	-49.2	448.1	-116.5	258	-197	7.9	1387.5	1418.2	221.1	53.4	-32.8	267.7
3rd	283.6	252.2	323.1	236.9	280.2	118.4	-122.4	-185.1	108.4	217.4	-61.4	-22
4th	-155.5	44.8	-200.2	82.1	-143.2	108.4	130.8	33.2	-1224.3	-96.9	17.2	55.6
5th	-37.5	88.2	-64.5	89.6	-80.8	67.7	-28.6	-99.6	-14.6	137.6	-1.8	-5.8
6th	1.7	-23.8	24.9	-40.4	28.3	-49	5.1	47.1	21.1	-99.1	3.1	-2.8
7th	7.3	5.1	-2.1	45	9.5	44.2	14.2	-39	-13.1	42.5	5.2	6.1
8th	18.1	-2.3	-2.9	-33.9	-15.6	-28.8	74.6	111.1	-102.6	-119.7	-0.9	0.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
35/31												
MEAN	-375.4		-1350.1		-286.1		-1969.7		622.5		568.2	
RMS	1141.2		4316.2		1238.6		4324.5		3610.2		2528	
1/2 P-P	2220.3		7750.2		2430		7539.6		6062.6		4262.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	386.6	665.7	-2310.8	-5226.3	-861.7	156.9	-1934.8	-1565.2	3016.6	-1417.7		
2nd	847.9	1097.8	-1370.6	-1541.6	-869.3	-1208.4	1357.2	1702.3	1047.7	1360.3	553.7	
3rd	-191	57.4	-176.8	153.7	81.2	133.9	176.3	208.8	132.3	151.2	-60.6	-81.8
4th	-59.4	-21.3	242.8	-39.8	-87.5	-49.9	110.1	-9.8	-78.7	22.8	-911	115.8
5th	-58.7	32.6	87.9	-46.1	-62.5	-91.7	66	145.2	24.9	79.1	-51.1	-189.1
6th	-3.1	10.6	-13.2	-29.5	-5.8	-14.1	7.4	39.3	5.1	19.3	-6.9	-52
7th	-13.9	-22.5	-16.1	-35.6	-21.7	18.5	-13.2	-12.5	-16	-17.6	-22.2	-13.9
8th	-9.5	21.3	83.9	96.5	2.8	21.7	77.8	93	69.1	89	28.8	51.9
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
35/31												
MEAN	-792.5		-583		0		-3136.5		-651		-98.3	
RMS	2064.5		447.6		0		3755.9		401.4		64.2	
1/2 P-P	3810.7		748.1		0		6700.6		682.7		126.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2177.7	-1258.1	-296.8	457.5	0	0	2090.6	4427.7	-401.8	-296.9	53.6	-56.5
2nd	287.6	221	-18.6	301.9	0	0	-1315.6	-1492.5	55.6	-248.4	-33.7	30.3
3rd	-160	-141.7	61.2	42.8	0	0	189.3	-88.1	33.4	-58.3	-5.1	1.4
4th	-1283.7	281	34.2	66.1	0	0	65.3	24.5	19.3	49.6	3.5	8.9
5th	-102.6	-324	3.1	11.7	0	0	-127.7	42.8	-7.8	5.8	-0.1	-0.5
6th	19.5	-90.6	8.9	-0.5	0	0	-8.3	-20	-5.1	0.8	1.4	-1.4
7th	-11.7	-1.6	-1.9	-8.2	0	0	18	-12	-7.7	0.7	-1.2	-0.3
8th	-31	-29.9	-1.4	0.1	0	0	67.4	104.3	-1.8	-0.3	-1.4	-0.9

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-418.3		87.7		298.1		3810.2		390.1		-11.2	
RMS	977.1		561.6		269.9		2314.5		495.1		875.5	
1/2 P-P	1641		1000.9		530		3477		856.7		1451.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-25.1	-65.3	5.8	-125.9	132.2	-293.6	-788.3	2463	286.5	-511.9	615.1	-841
2nd	-730.5	-1148.3	-404.7	-657.6	-140.4	-103.6	882.6	442.5	73.7	346.4	33.2	624
3rd	-50.4	-66.8	-22	-45.6	0.7	-25.1	41.9	23.5	52.5	-20.7	189.6	125
4th	-61.2	-27.1	-19	-14.7	30.2	9.3	212.7	364	67.7	23.8	-9.4	20.2
5th	-0.4	10.8	7.8	-3.3	18.8	-22.6	288.3	-12.4	21	-39.5	-3.8	21
6th	-6.5	-17.4	5.1	-3.1	20.1	15	-253.1	-164.9	24.9	30	-25.6	-19
7th	7.7	-20.4	1	-4.6	-11.4	21.2	-68	168.3	-24.4	42.4	40.7	-41.6
8th	5.2	22.5	13	4.9	24.2	-23.6	67	-433.3	13.7	-39.6	-33.5	46
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-366.7		-615.1		-602.8		-3711.1		-2013.1		-583.8	
RMS	795.7		620.9		365.3		3064.8		1297.7		395.6	
1/2 P-P	1295.3		1178.2		850.7		5900.3		2524.6		652.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	471	-830.3	244.7	-641.1	-106	-220.4	-3479.8	1704.6	-1288.8	1004.1	271.5	-409
2nd	-48.2	451.3	-108.2	260.7	-173.5	8.7	1189.6	1430.6	154.3	70.9	-35.4	255.2
3rd	257.4	188.3	302.9	192.2	273.7	102.5	-136.8	-150.9	168.8	153.7	-50.7	-22.4
4th	-157.9	33.5	-207.2	72	-154.3	106.8	93.2	55	-626.3	-46.3	16.9	41.2
5th	-83.3	53.2	-126.5	43.1	-126.6	33.6	16.8	-91.4	-75	110.3	-6	-4.8
6th	-8.5	-29.7	25.6	-43	35.2	-48.7	8.4	41.9	12	-88.4	6.5	-2.9
7th	0.1	1.2	-16.1	51.6	-2.4	55.8	52	-15.8	-39.1	24.2	1.7	9.2
8th	20.3	-12.9	11.9	-64.7	5.8	-57.8	123	156.9	-137.5	-164.8	-0.6	0

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
39/12												
MEAN	-568.1	-1507.5	-477	-2175.5	427.3	609.6						
RMS	1126.5	4028.9	1193.8	4057.3	3384.5	2313						
1/2 P-P	2261.1	7209.7	2412	7001	5740	3768.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	366.8	706.9	-4999	-860.3	169.5	5142.6	-1493.1	4340.7	-1194	2889.5	-1184.1	
2nd	757.4	1124.7	-1532.2	-752.9	-1206.2	1110.6	1646.2	849.5	1314.7	453.3	542.5	
3rd	-89.5	8.1	181.6	55	54.1	174.3	169.2	122.8	120.2	-100.8	-74	
4th	-43.7	-17.8	0.9	-63.2	-41	93.4	5.4	-14	32.8	-490.6	113.6	
5th	-43.7	-19.2	-5.4	-4.4	-78.3	15.9	139.3	6.6	79	59.1	-167.4	
6th	10.1	19.2	-42.7	-5.1	-16.4	9	39.7	5.2	18.3	0.3	-73.7	
7th	-14.3	-14.2	-18.4	-8.8	25.5	-14.8	-4.4	-14.1	-8.3	-14	-8.5	
8th	1.1	19.2	128.8	13.2	30.1	117.9	116.9	101.6	116.7	59.5	66.3	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
39/12												
MEAN	-778.3	-586.7	0	-3293.5	0	-655.8	-129					
RMS	1798.2	444.5	0	3480.6	0	398.8	47.8					
1/2 P-P	3131.4	727.9	0	6219.3	0	662.3	77.3					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2070.4	-1108.4	-290	463.7	0	1594.5	4250.2	-408.3	-290.1	52.9	38.8	
2nd	210.1	229.3	-21.6	292.6	0	-1082.8	-1482.8	53	-241.9	5.8	-14.7	
3rd	-229	-97.4	54.5	48.9	0	166.8	-109.4	31.7	-52.2	0.8	0.6	
4th	-688.7	231.1	28.7	54.6	0	52	40.4	15.3	37.6	0.2	-0.3	
5th	64.4	-299.2	4.4	7.8	0	-107.9	4	-4.6	7.6	-0.1	0.2	
6th	3.1	-109.1	10.4	-0.3	0	0.2	-23.4	-6.2	0.3	0	0	
7th	-3.4	-20.4	0.5	-10	0	47.1	15.9	-9.5	-1.7	0	0	
8th	-47.4	-48.2	-1.6	-0.6	0	114.4	145	-2.4	-1.2	-0.1	0	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	364.4		572.5		498		789.7		469.4		61.5	
RMS	1068.5		611.5		264.9		1086.6		507.5		921.6	
1/2 P-P	1898.6		1087		480.5		3978.2		869.1		1556.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-245.6	20.8	-130.9	-70.6	83	-285.2	-132	-98.4	283.2	-522.7	647.3	-878.3
2nd	-889.5	-1176	-502.6	-676.1	-182.2	-100.5	7.8	-203.4	74.3	368.1	45.6	653.9
3rd	-58.5	-154.1	-24.2	-97.3	0.2	-37.7	327.6	349.7	54.8	-2.6	197.4	196.6
4th	-80.6	-15.2	-33.4	-6.2	21.7	16.5	-410.8	-44.5	68.2	26.8	-5.7	17.3
5th	-21.8	8.8	-1.8	-2.4	24.5	-16.5	416.4	-315.1	45.7	-28	-2.6	12.6
6th	10.3	-29.6	14.5	-8.2	18.9	16.6	-24.3	461.7	9.5	37.8	-21.4	-13.8
7th	14.3	-19.6	7.2	-6.8	-4.7	11.8	-244.3	-262.7	-23.3	29.3	28.9	-30.3
8th	14.7	15.7	14.1	0.7	10.4	-22.6	325.5	47.7	-10.5	-32.4	-0.6	44.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-380.2		-678.9		-695.1		-2946.4		-1907.5		-595.6	
RMS	869.3		677.6		385.6		3855.5		1756.7		419.6	
1/2 P-P	1437.1		1366.9		932.6		6987.7		3606.7		682.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	512.3	-905.7	269.1	-712.4	-121.2	-254.5	-3855.3	3140.1	-1444.6	1357.8	303.9	-415.9
2nd	-26	483.7	-100.9	286.9	-206.2	21.5	1551.9	1518.4	233.8	105.1	-36.7	278.8
3rd	274.8	262.6	317.9	245.2	283.8	114.2	-137.1	-193.4	193.9	228.2	-62.7	-25.4
4th	-110.7	34.3	-128.6	66.2	-70.5	98.7	138.5	26.3	-1331	77.1	7.3	50.1
5th	-129.5	63	-168.9	78.8	-143.8	73.6	-5.8	-87.3	-96.8	121.3	-12.7	-4
6th	20.1	-39.9	43.5	-52.3	39.6	-52.6	17	62.3	10.1	-111.3	5.5	-7.8
7th	17	10.9	12.3	47.6	21	48.7	9.2	-48.5	3.9	57.7	5.8	9.4
8th	13.9	-8.1	-22.8	-45.9	-37.8	-37.9	122.3	58.8	-139.9	-55.9	-0.6	0.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
39/13												
MEAN	238.3		-833.5		339.1		-1437.6		1078.7		873.6	
RMS	1121.8		4802.2		1185.6		4670.6		3927.1		2794.7	
1/2 P-P	2034.3		8274.5		2202.2		8095.7		6639.4		4515.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	290.9	509.3	-3173.1	-5546.3	-635.4	80.2	5478.4	-2858.8	4677.3	-2356.3	3130.2	-1917.4
2nd	890.5	1151.3	-1510	-1626.9	-900	-1242.4	1510.2	1704.2	1173.8	1364.3	638.9	548.9
3rd	-174.2	16.5	-216.9	183.1	58.2	128.5	183.4	200.9	132.3	136	-66.2	-136
4th	-60.6	0.1	247	-51.3	-84.2	-27.1	90.3	-24.5	-124.6	35.4	-1067.1	249.6
5th	-44.1	-26.7	73	-19.6	1.4	-71.8	43.2	152.8	23.6	90.2	23.9	-171.3
6th	-13.3	19.5	-6.7	-46.6	8.8	-13.6	1	42.9	-0.3	19.9	7.9	-78.4
7th	-14.9	-25.7	-36.7	-29.7	-20	18.1	-37.1	-17.8	-34.5	-21.3	-30.8	-16.1
8th	2.1	19.3	112.8	45.1	9.4	24.6	111.5	39	99.9	45.9	46.5	35.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
39/13												
MEAN	-647.9		-598.3		0		-2593.4		-675.7		-121.8	
RMS	2320.9		465.2		0		4256.6		419		41.8	
1/2 P-P	4316.7		758		0		7482.3		685.3		65	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2274.8	-1616.3	-319.9	468.8	0	0	2989.6	4745.8	-411.6	-318.4	43.7	35.9
2nd	323.4	233.8	-22.6	315.6	0	0	-1431.8	-1586.2	62.8	-261	4.7	-16.5
3rd	-183.9	-197.9	60	48.9	0	0	224.4	-110.7	36.9	-61.9	0.7	1.2
4th	-1484	480	23	58.2	0	0	85.4	8.8	9.7	48.1	0.3	-0.1
5th	6.8	-305.6	9.1	10.6	0	0	-113.8	16.6	-3.9	12.1	0	0.1
6th	14.5	-116.2	9.8	-2.2	0	0	9.8	-27.3	-4.3	2.7	-0.1	-0.1
7th	-15.3	-7.2	-5.1	-8	0	0	12.9	-23.3	-8.2	2.7	-0.1	-0.1
8th	-55.2	-3.7	-0.8	0.8	0	0	99	61.1	-0.5	-0.6	0	0.1

RUN/POINT 39/14	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	826.3	125.3	920.8	-433.4	1957.2	1221.6						
RMS	1308.5	6777.9	1376.5	6325.9	5323.9	3701						
1/2 P-P	2369.5	10779.4	2602.1	9895	8179.4	6034.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	533.8	1056	-7946.3	-1202.8	265.9	7118.3	-4820.1	6068.9	-3993.9	3980.5	-2948.2
	2nd	874.9	1060.8	-1690.3	-1844	-893.7	-1167.1	1708.2	1734.4	1335.8	1397.5	765.5
	3rd	-339.3	-19.5	-234.6	90.2	14.6	293.5	113.7	272.2	90.1	204.8	12.9
	4th	-26.4	25.9	252.9	-39.1	-36.6	-9.6	62.6	16.6	-176	33.8	-1268.1
	5th	-9.8	-20.9	49.7	-29.6	11.7	-46.7	11.7	58.7	7.1	44.1	27
	6th	10.7	8.1	-3.3	-5.1	-13.3	-13.4	-2.8	38.7	1.3	24.4	34
	7th	-6.3	-14	-3	-38.5	-12.1	15.4	-14.2	25.1	-14.1	13.7	-6.4
8th	2.2	10.3	-17.5	9.2	-1.1	14.6	-31.1	-25.8	-21.9	-20.5	-12.4	
												7.4
RUN/POINT 39/14	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-519.6	-2363.2	-610.4	-349	0	462	-1688.8	7386.1	-695.3	-399.8	-121.6	38.2
RMS	2979.5	446.2	468.2	-33.7	0	303.1	6409.6	-1830.6	421.7	80.3	44.9	4.7
1/2 P-P	5588.8	-42.2	744.3	67.8	0	33.8	10347.8	-51.8	712.6	28.5	70.1	0.1
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	2833.8	-2363.2	-349	462	0	0	4606.5	-399.8	-346	38.2	47.2
	2nd	446.2	242.7	-33.7	303.1	0	0	-1650	80.3	-247.6	4.7	-17.8
	3rd	-42.2	-205.2	67.8	33.8	0	0	236.6	28.5	-64.6	0.1	0.9
	4th	-1790	282.5	-4.9	55.6	0	0	47.9	-12.5	45.5	0.4	0.1
	5th	33	-21.4	7.4	15.8	0	0	-92.3	-7.9	8.3	0	0
	6th	41.2	-48.4	9.3	0.4	0	0	22.4	-9	2.4	-0.2	-0.2
	7th	3	-18.9	-8.2	-6.7	0	0	31.5	-7.7	4.4	0.1	-0.1
8th	10.4	16	2.3	3.7	0	0	-21.7	2.1	3.4	0	0	

RUN/POINT 41/24	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3173.4	-1619.3	-411.3	0	136.1	-231.3						
RMS	1077.4	608.3	206.6	0	455.8	845.3						
1/2 P-P	1754.9	1030.2	473.4	0	906.2	1462.8						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-327.4	119.7	-170.9	-14.2	37.1	-194.9	0	234.5	-403.1	499.1	-709.3	
2nd	-700.8	-1238.4	-378.8	-718.3	-100.8	-145	0	135.4	323.3	243.7	689.4	
3rd	-252.7	216	-143.6	112.6	-18.1	5.6	0	124.7	-108	357.7	-93.7	
4th	-129.6	-57.4	-54.2	-32.6	31.2	14.6	0	99.7	52.1	31.3	27	
5th	76.6	74.1	37.4	22.1	-4	-51.1	0	-71.9	-129.3	-21.3	29.9	
6th	-11.8	-6.9	-2.2	0.3	9.4	12.5	0	15.4	24.8	-15.7	-24.9	
7th	11	-17.3	1.3	-4.3	-15.7	16.1	0	-34.5	34.7	47.8	-26	
8th	-32.4	27.7	0.7	8.4	48	-17	0	64.1	-37.6	-90.5	20.4	
RUN/POINT 41/24	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-339	-394.1	-224.6	-6370.8	-2286.6	-504.5						
RMS	787.6	637.6	369.4	1513.2	523.8	363.5						
1/2 P-P	1491.8	1351.5	923.9	3515.2	1251.9	606.6						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	377.3	-683.3	220.6	-503.5	-3.1	-143.5	-376.5	-1436.5	-363.8	61.6	193.3	-402.9
2nd	262.6	516.9	183.8	313.2	6.6	25.8	690.1	1077.6	-58.9	-110.6	27.3	229.7
3rd	429.4	20.4	464.9	55.2	369.7	25.5	-138	-122.1	313.2	97.9	-19.1	-44.4
4th	-192.3	-29.1	-257.4	6	-184.1	54.8	108.8	62.9	-142.5	153.9	64.5	64.2
5th	107.3	216.5	103	223.7	32.6	154.2	-44.2	-133.9	19.1	315.9	0.9	-6.7
6th	-3.4	-12.3	37.7	-22.8	46.1	-35.6	27.3	-8.3	-10.9	-46.2	9.7	0.4
7th	-2.3	-3.8	-25	53	-8.3	61.5	42.8	2.7	-36.9	42.3	-0.5	8
8th	38.1	-10.7	82.9	-56.1	81.2	-41.9	-12	160.2	6.3	-192.4	-0.4	2.1

RUN/POINT 41/24	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-3388.3		-3939.2		-3396.3		-4358.4		-1523.4		-336.3	
RMS	1111.4		1839.2		1201.6		2289.6		1873.5		1110	
1/2 P-P	2294.8		3420.5		2538.4		4128.5		3419.9		2251.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	137.2	457.9	1210.2	-1804.6	-708.8	-32.7	2286.6	1723.7	1858.2	1485.8	1296.2	615.3
2nd	746.5	1235.2	-693.2	-1093.6	-704.2	-1302.5	681.8	1184.2	498.1	918.4	223	310.1
3rd	239.9	195.5	-115.9	217.8	252.9	-249.7	194.9	133.4	133.7	79.2	-133.1	-91.2
4th	-99.7	-53.1	135	7.7	-116	-65.9	94.7	20.9	51.3	53.4	-112.4	160.1
5th	-84	84.5	125.1	-50	-93.1	-117.7	49.9	158.2	27.2	80.9	5.8	-246.1
6th	7.9	15.7	-21.9	-10.9	2.7	-5.4	11.5	2.5	12	-1.3	7.2	-71.8
7th	-18.2	-15	3.6	-4.3	-6.9	23.2	-7.1	12.7	-6.1	11.7	-7.1	-1.8
8th	-43.6	27	-20.2	157.9	-8.5	26.8	-35.8	154.6	-36.3	138.8	-18.7	68.7
RUN/POINT 41/24	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1202.5		-511.9		0		-5797.2		-561.3		-139.5	
RMS	843.6		419.5		0		1670.7		370		43.8	
1/2 P-P	1850.8		679.3		0		3497.6		621.9		72	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	944.9	233.3	-212.5	466.9	0	0	-1669.4	801.4	-408.6	-208.4	56.2	22.8
2nd	41.3	44.8	37.6	264	0	0	-631.5	-1078.2	-15.5	-225.9	2.5	-11.1
3rd	-281.7	-107.8	24.5	77.9	0	0	149.8	-146.9	42.4	-22.1	0.7	0.7
4th	-157.9	253.9	62.1	81	0	0	72.1	38.6	73	63	0	-1.2
5th	-44.3	-423.2	0.2	12.2	0	0	-131.5	36.3	-12.1	0.3	-0.1	0
6th	-2.5	-85.9	11.2	2.9	0	0	4	0	-9.2	-2.2	-0.2	0
7th	13.3	-4.8	3.6	-8.1	0	0	13.8	11.3	-6.8	-2.6	-0.1	-0.2
8th	19.7	-58.6	-0.5	1	0	0	-27.6	151.6	-0.6	0.1	0	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-2102.6		-947.8		-130.2		0		250.8		-115.7	
RMS	926.2		522.2		201.8		0		426.1		760.2	
1/2 P-P	1417.9		860.8		397.2		0		782.5		1244.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-150.3	110.9	-67.6	-15.9	85.4	-201.5	0	0	248.5	-408.9	518.8	-700.2
2nd	-638	-1104.4	-347.1	-637.1	-106	-120.1	0	0	91.7	299.3	94.3	574
3rd	-145.4	63	-79.2	28.1	-8	-9.3	0	0	80.4	-55.6	239.4	26.8
4th	-96.4	-57.8	-37.1	-30.5	29	15	0	0	81	51.7	9.1	26.3
5th	49.5	59.7	26.7	18.7	3.7	-39.3	0	0	-40.5	-97.7	-14.2	21.6
6th	-10.4	-6	-0.8	0.5	11.5	10.9	0	0	16.1	21	-12.7	-19.2
7th	7.1	-10.8	2.3	-1.9	-7	11.8	0	0	-21.9	23.9	29.5	-22.8
8th	-9.5	10.6	2.9	3.7	20.6	-5.6	0	0	20.2	-11.6	-24.5	8.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-310.3		-450.2		-381.7		-4879.8		-2131.4		-539.6	
RMS	713.6		571.6		325.1		1575.6		658.7		352	
1/2 P-P	1304.3		1100.8		806.6		3049.3		1398.2		585.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	397.9	-703.9	223.5	-538.3	-41	-173.8	-1491	-661.8	-637.7	301	219.7	-379.3
2nd	68.4	414.4	17.6	240.3	-74	4	811	1124.6	22.3	-46.2	-10.9	220.8
3rd	298.8	136.9	330.1	156.8	275.6	85.2	-128.5	-121.5	244.9	94.9	-31.8	-30.3
4th	-196	-25	-262.4	-1.4	-199.4	41.5	79.2	61.9	-391.6	57.2	38.7	55.6
5th	45.5	175.3	33.3	190.9	-13.5	140	-13.8	-108.1	-11.7	229.1	-0.8	-2.1
6th	-12.5	-8.2	12.5	-15.7	21.2	-26.1	13.7	-8.1	-18	-24.1	6.4	-0.3
7th	0.5	3.7	-10.6	40.9	4.7	45.4	49.9	0.4	-34.2	30.2	-0.6	7.3
8th	15.2	-1.6	15.1	-18.7	10.7	-9	5.1	102.5	-23.8	-115.8	-1.4	0.7

RUN/POINT 41/25	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2295.9	-2565.9	-2291.9	-3004.8	-336	209.8						
RMS	1028.6	2506.8	1140.1	2755.6	2267.3	1431.4						
1/2 P-P	2003.4	4727.5	2293	4791.7	3974	2756.4						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	153.5	626.9	491	-3103.3	-844	-38	3402	994.5	880.8	1881.9	204.3	
2nd	677.8	1095.3	-809.8	-1250.4	-649.9	-1178.7	766	1294.8	1021.2	270.4	370.9	
3rd	66.4	84.3	-119.5	154	143.8	-99.2	154.5	125.6	85.9	-110.3	-86.8	
4th	-78	-52	129.3	-1.1	-94.6	-73.6	88	21.6	51.8	-342.7	129.7	
5th	-76	61.5	91.3	-44.5	-76.1	-109	9.3	165.7	90.9	-6.8	-212.8	
6th	5.9	13.5	-27.2	-13	-0.3	-4.2	-4	17.9	11.2	8.3	-58.6	
7th	-9	-9	5	-4.4	-5.7	12.8	13.3	23.9	18	-4.3	-1.6	
8th	-21.4	0.8	-8.7	92.1	8.7	12.7	-7	86.8	83.4	-3.9	43.7	
RUN/POINT 41/25	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-957	-542.1	0	-4421.3	0	-601.3	-141.3					
RMS	1089.7	403.5	0	1890.9	357.3	44.7						
1/2 P-P	2319.7	662.8	0	3497.6	599.6	72.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	1338.7	-79.1	-236.4	438.9	0	0	-868.9	2060.8	-233.6	53.4	31.1	
2nd	82.5	99.7	-0.9	253.7	0	0	-741.4	-1122.5	-216.4	5.7	-12.2	
3rd	-228.7	-109.1	41.3	58.7	0	0	156.4	-100	34.8	1	0.6	
4th	-472.2	234.3	44.7	72	0	0	81.6	55.1	46.9	0.3	-0.8	
5th	-35.2	-379.3	1.4	7.7	0	0	-94.1	15.3	-7	0.1	0.1	
6th	9.6	-75.8	9.5	1.3	0	0	24.2	8.4	-8	0	0.1	
7th	-8.1	-10.4	2.1	-7.2	0	0	41.2	15.7	-5.7	0	0.1	
8th	1.8	-22.4	-1.6	0.9	0	0	11.2	92.2	-2.2	0.1	0	

RUN/POINT 41/26	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-893.3	-193.1	181.7	0	370.3	3.8						
RMS	989.4	559.5	214.9	0	434.4	804.8						
1/2 P-P	1705.6	948.9	419.4	0	758.3	1346.2						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-158.7	150.2	-75.3	13.7	91.6	-201.2	0	263.5	-426.2	570.9	-769
	2nd	-848.1	-1074.9	-475.8	-619	-160.8	-103.4	0	88.5	314.6	119.1	574.1
	3rd	-57.8	1.1	-29.8	-6.8	-3.8	-20.3	0	41.6	-43.6	162	65.2
	4th	-80.9	-29.4	-29.1	-14.9	30.1	12.4	0	73.4	29.2	-2.5	11.4
	5th	-10.9	-7.4	2.2	-8.4	18.6	-9.4	0	26.9	-4.3	-7.4	12.5
	6th	-1.9	-21.4	4.6	-5.2	11.7	16.1	0	12.1	37.8	-15.1	-17.5
	7th	8.8	-13.9	1.8	-2.6	-9.7	14.7	0	-26.6	31.5	34.3	-27.2
	8th	9.6	11.3	11.2	-1.8	12.3	-22.3	0	-4.1	-28.5	-7.5	36.8
RUN/POINT 41/26	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-325.2	-549.8	-536.9	-3196.5	-1915.2	-576.4						
RMS	733.7	563	311.9	2185.8	961.9	368						
1/2 P-P	1261.2	1109.7	708.1	4506.1	1971.1	620.3						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	436.4	-781.2	232.7	-603.7	-86.9	-2312.1	897.6	-914	736.6	256.9	-376.3
	2nd	33.3	401.7	-49.3	227.7	-159.4	1214.5	1253.9	71.6	28	-24.8	236.6
	3rd	224.5	130.3	256.9	126.2	222.6	-122.3	-169	204	33	-43.3	-33.2
	4th	-147.7	-1	-192.7	23.1	-145.8	79.7	49.6	-413.1	-19.3	31.5	46.5
	5th	-78.7	5.3	-113.2	2.3	-108.7	30.5	-69.1	-106.4	68.1	-7.4	0.9
	6th	5.4	-37.8	28.6	-48.5	30.8	-0.1	24.2	-11.5	-70	4.5	-3.4
	7th	5.8	4.1	-5.3	42.9	1.1	-10.7	9.8	22.2	7.9	2.1	7.5
	8th	13	-13.5	-6.8	-44	-15.5	98.3	64.3	-117.9	-70.4	-1.7	0.7

RUN/POINT 41/26	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1057.8	-920.1	-1015	-1598.6	912	784.3						
RMS	1043.3	3210.7	1160.6	3366	2792.9	1845.8						
1/2 P-P	1916.7	5884.6	2169.8	6041.6	4953.7	3164.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	123.7	544.3	-1093.7	-3966.6	-762.2	-59.8	4265.5	-602	3583.1	-458.8	2373.5	-650.9
2nd	857.5	1049.5	-1199.6	-1397.1	-861.5	-1154.5	1168.2	1555.3	885.5	1250.4	438	509.4
3rd	-10.1	1.3	-143.8	149.2	35	-41.8	159.4	200.8	111	155.8	-96.3	-13.1
4th	-60.7	-21.9	141.9	14.5	-80.2	-47.1	113.9	23.6	29.6	53.3	-321.5	146.5
5th	-13.5	-16.2	58.9	4.1	-1.3	-46.8	-5.8	140	0.6	85.7	88.7	-113.8
6th	0.4	27.9	-13.1	-38.6	-3.4	-19.3	14.7	29.7	9.8	12.4	17.4	-77.9
7th	-12.2	-11.8	-37.8	7.9	-12.5	20	-14	14.9	-16.7	5.8	-17.3	-14.8
8th	2.8	8.1	91.4	35	11.9	25.6	104	18.4	96.1	28.6	52.8	9.2
RUN/POINT 41/26	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-679.4	-581	0	-2748.3	-646.9	-138.4						
RMS	1413	416.2	0	2567.1	369.9	45.4						
1/2 P-P	2578.5	691.4	0	5026.4	626.7	74						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	1687.4	-702.9	-272.7	432.6	0	0	768.6	3007.7	-375.1	-270.9	51.6	34.3
2nd	163.8	211.8	-13.2	270.1	0	0	-1140.9	-1319.2	44.9	-225.1	8	-14.8
3rd	-202.1	-19.4	53.1	58.6	0	0	178.8	-94.4	41.2	-42.3	1.1	0.4
4th	-454.3	252.3	40.6	58.1	0	0	83.3	34.3	35.3	41.3	0.1	-0.7
5th	106.3	-243.1	9.7	0.7	0	0	-73.1	-38.9	-0.1	9	-0.1	0
6th	7.7	-104.7	8.4	-1.9	0	0	26.3	-9	-6	-0.2	0.1	0
7th	0.9	-14.2	0.8	-7.9	0	0	-1.7	27.3	-7.6	-1.2	-0.2	0.2
8th	-38.4	-11.5	-1.5	1.2	0	0	97.1	58	-2.5	-0.4	-0.2	0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-65		318.4		385.4		0		430.6		65.9	
RMS	1072		608.5		223.9		0		465.1		851	
1/2 P-P	2078		1195		492.3		0		813.2		1418	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-553.3	148.6	-314.8	10.4	1	-231.6	0	0	258.7	-483.3	603.1	-829.7
2nd	-841	-1094.2	-473.8	-627.6	-169.2	-95.6	0	0	74.7	334.5	22.9	584.4
3rd	-12.3	-179.8	-2.1	-107.5	-4.6	-37.4	0	0	24.7	14.6	151.7	180.4
4th	-55.4	-7	-20.2	-2.2	19.6	10.6	0	0	48.9	12.2	-16.1	9.7
5th	29.1	28.2	16.2	4.2	2.3	-31.9	0	0	-28	-64.8	-4.7	16.5
6th	-5.4	-10.2	2.1	-0.6	13.1	12.1	0	0	16.7	19.3	-18.1	-12.4
7th	2.4	-5.4	1.2	1.9	-1.2	14.8	0	0	-11.6	23.5	14.7	-23.1
8th	-1.1	14.5	4.8	5.8	13.9	-8	0	0	6.3	-16.9	-9.2	17.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-318.1		-594		-628.3		-2404.1		-1851		-595.7	
RMS	800.6		630.9		362.8		2764.1		1370.8		398.3	
1/2 P-P	1268.8		1086.1		745.8		5182.5		2954.9		647.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	474.8	-845.6	255.2	-668.8	-100.8	-242.6	-2087.7	2616.3	-975.3	1246.6	290.6	-391.8
2nd	-79.7	417.3	-149.2	238.1	-219.2	4.7	1436.7	1288.6	185.9	26.5	-37.3	264.4
3rd	265.9	230	312.8	213.4	276.3	96.5	-134.2	-148	124.2	180.2	-68.8	-24.3
4th	-112.4	52.9	-136.2	87	-93.5	103.3	125.1	24	-1000.2	4.1	16.7	44.2
5th	25.3	109.9	23.4	122.2	-2	95.4	-53.2	-78.6	75.3	119.9	-7	-0.8
6th	3.6	-16.7	23.4	-27	33.2	-30.2	15.3	0.5	-6.2	-31.8	3.9	0.4
7th	7.9	10.1	13.3	35.5	25.6	30.6	25	-15.4	-8.1	38.5	4.9	5.8
8th	10.6	-2.2	0	-21.7	-4.8	-17.9	46.8	86.7	-57.8	-89.7	-1.5	3.6

RUN/POINT 41/27	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-224.9	-101	-145.1	-833.8	1605.3	1082.4						
RMS	981.9	3646.9	1056.7	3612.3	3029	2152						
1/2 P-P	1637.1	6484.5	1884.9	6656.3	5395.3	3583.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	110.7	162.2	-2673.7	-3895.7	-344.6	-64.9	4105.9	-2122.5	3508.2	-1758.2	-1526.4
	2nd	842.4	1053.2	-1403.5	-1402.7	-849.1	-1149.6	1441.6	1521.1	1120.4	1216.3	450.4
	3rd	-191.7	-33.5	-155.2	168.4	9.1	148.6	165.3	147.8	116.9	108.8	-83.7
	4th	-35.8	4	208.6	-48.9	-49.4	-15.4	112.8	-19.5	-52.8	30.7	188.1
	5th	-59	29.8	85.1	-43.5	-49.3	-84.7	68.7	112.6	30.8	60.2	-166.6
	6th	1.6	16.7	-24.7	-11.1	4.2	-14.8	-0.2	24.2	-7.5	12.6	-59.3
	7th	-7.5	-8.2	-17.9	0.9	-8.5	8.2	-6.4	42.3	-13.5	26.2	-21.3
	8th	-10.4	4.1	42.4	82.8	12.2	6.1	52.4	63.9	44.2	68.2	36.4
RUN/POINT 41/27	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-551.2	-603.5	0	-2009.2	-673.2	-129.4						
RMS	1797.5	443	3061.7	396.7	73.3							
1/2 P-P	3325.9	730.9	5655.4	649.7								
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	1708.2	-1356	-307.2	443.6	0	2457.1	2953.7	-387.8	-308.3	50.9	27.2
	2nd	298.6	157.4	-26.6	298.4	0	-1351.7	-1338.2	62.1	-241.6	8.7	-17
	3rd	-182.3	-115.8	67.1	54.6	0	171.5	-109.7	40.8	-59.7	1.3	1
	4th	-1096.7	372.1	24.1	53.5	0	64.4	6.5	12.6	35.9	0.1	-0.2
	5th	-136	-278.1	7.1	8	0	-104.7	43.2	-5.5	8.8	0.3	-0.1
	6th	-14.8	-80.6	9.1	-1.4	0	21.2	-10.6	-5.8	-0.2	0	-0.2
	7th	-12.7	-42.1	-1.8	-6.9	0	17.8	21.2	-6.7	-0.3	0.1	-0.1
	8th	-31	-15.1	-1.9	1.6	0	44.3	79.3	-1.5	2.4	0.1	-0.2

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.144	Flap Bending, in-lb Blade 1, r/R=0.167	Flap Bending, in-lb Blade 1, r/R=0.215	Flap Bending, in-lb Blade 1, r/R=0.280	Flap Bending, in-lb Blade 1, r/R=0.325	Flap Bending, in-lb Blade 1, r/R=0.570					
41/28											
MEAN	717.3	804.5	586	0	506.8	113.6					
RMS	1115.6	640.1	253.1	0	475.1	865.6					
1/2 P-P	2344.6	1359.3	478.7	0	808	1460.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE					
1st	-558.9	75.7	-320.8	-29.1	5.1	-259.8	0	262.8	-497.5	609.4	-839.3
2nd	-924.8	-1035.7	-526.8	-594.1	-195.6	-80.7	0	64.6	333.3	8.8	548.5
3rd	-2.4	-317.5	7.9	-185.1	-1.9	-45.5	0	0	26	136	309.8
4th	-23.6	7.3	-9.4	9.1	5.7	19.1	0	0	14.8	-15.5	0.9
5th	-23.3	-2	-2.6	-2.3	23.5	-2.8	0	0	46.7	1	11.6
6th	5.2	-19.1	10.9	-4.2	19.7	13.9	0	0	19.2	-20.2	-13.2
7th	13.3	-20.8	10.6	-6.4	6.7	15.5	0	0	-6.3	10.7	-40
8th	16.7	8.1	8.2	-0.4	-3.1	-15.4	0	0	-23.8	26.1	30.5
RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400					
41/28											
MEAN	-306.7	-636.2	-718.3	-1524.9	-1747	-602.3					
RMS	807.1	633.6	377.5	4135.3	2042.7	411.5					
1/2 P-P	1486.9	1404	910.6	7383.9	4438	697.7					
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE					
1st	490	-843.4	255.6	-665.3	-127.8	-251.9	-3025.3	4323.4	-1232.3	317.3	-390.1
2nd	-140.7	380.2	-218.8	208.5	-277.5	-6.7	1752.9	1264.5	285.3	-46.3	269.6
3rd	232	308.4	267.6	264.6	237	120.3	-85.7	-248.9	29.9	-85.2	-8.3
4th	-41.6	35.6	-52.4	62.8	-33.4	81.3	144.9	-39.6	-1819.6	8.3	48.4
5th	-117.6	-15.8	-152	-20.1	-125.3	-10.1	-36.1	-43.5	-30.2	-13.5	-7.8
6th	7.7	-26.7	20.6	-36.8	20.3	-38	-32.7	29.7	17.4	7.7	-5.1
7th	17.7	10.6	28.4	39.5	31.2	38.9	-0.3	-49	2.3	4.6	7.1
8th	-4.6	-5.5	-37.4	-24.9	-38.8	-23.1	35	33.7	-58.1	0.1	2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
MEAN	609	664.7	673	32.8	2382.1	1422.7						
RMS	1029.2	4862.7	1135.2	4794.5	4047.8	2916.3						
1/2 P-P	1851.2	8564.8	2076.5	8352.4	6760.5	5246.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	218.2	107.1	-4374.1	-4710.4	-308.8	-8.4	4954.5	-3852	4267.7	-3219.2	2849.2	-2432.1
2nd	893.9	996.4	-1626.7	-1417.6	-950.6	-1154.8	1731.4	1595	1348.3	1282.7	754.9	485.2
3rd	-346.5	-9.3	-181.2	111.3	6.5	264.4	100.4	268.6	76.5	208.4	-15.5	-69.2
4th	-10.4	24	310.1	-39.9	-38	-24.1	99.2	-14.8	-149.2	36.8	-1270.9	232.8
5th	-21.6	-39.3	58	-6.1	2.4	-66.3	29	98.8	16.7	65	17.3	-62.7
6th	-1.5	15	18	-5.4	-8	-15.1	-6.9	36.8	-3.4	22.6	35.8	-45.5
7th	-14.1	-12.2	-2.5	-39.5	-21.7	18.2	1.9	-11.8	-4.9	-15.8	-11.3	-12.3
8th	2.2	0.9	51.8	22	6	14.1	41.6	-7.8	40.5	2.2	17.5	4.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
MEAN	-384.8	-609.5	0	-1105.5	-687.3	-118.5						
RMS	2491.5	454.7	0	4431.4	408.3	40.8						
1/2 P-P	5208.2	761.2	0	7590.7	682.5	72.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2070.6	-1988.7	-334.4	441.7	0	4174.5	3934.6	-382.8	-333.2	45.7	27.4	
2nd	411.1	182.3	-32	308.1	0	-1710.2	-1434.9	73.4	-249.1	9.1	-18.5	
3rd	-69.8	-151.9	75.5	30.5	0	197.4	-51.8	26.1	-71.2	1.5	1	
4th	-1772.7	483.3	21.7	49.9	0	44.4	-48.7	6.9	41.8	0.3	-0.4	
5th	-4.2	-134.4	11.5	13.8	0	-86.1	22.2	-7.6	13.3	0	0	
6th	45.7	-53.8	9.3	-2.3	0	13.2	-10	-4.9	2.2	-0.3	0.1	
7th	1.4	7.3	-4.3	-5.9	0	2.2	-17.6	-6.3	1.5	0	0	
8th	-15.1	14	0.3	2.6	0	24.2	21.2	-0.7	2.2	-0.2	0.2	

RUN/POINT 41/29	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1266.2	1147.8	721.2	0	557.9	182.1						
RMS	1088.5	622	271.5	0	496.7	911.8						
1/2 P-P	2018.7	1148.7	534.7	0	862.6	1563.8						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-24.4	144.2	-0.1	22.1	152.1	-245.8	0	315.9	-505	663.4	-899.3
	2nd	-1009.8	-1072.9	-576.8	-615.1	-214.4	-79.2	0	64.1	347.8	-0.3	575.9
	3rd	77.3	-300.7	51.4	-175.9	4.6	-51	0	-7.2	47	83	272.1
	4th	-30.5	24.7	-10.1	17.2	11.3	16.7	0	27.9	7.4	-16.7	-4.2
	5th	-18.3	39.2	-1.9	16.7	20.5	-9.6	0	37.4	-32.1	5.7	2.4
	6th	12.4	-13	11.7	-1	11.6	12.3	0	2.6	19.3	-15.6	-2.6
	7th	11	-5.7	11.2	2.9	13.7	17.1	0	4.5	24.6	-4.8	-41.6
	8th	6.9	9.1	11	1.2	17.2	-10.8	0	7.2	-17.9	-11.4	20.4
RUN/POINT 41/29	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-295.9	-657.1	-768	-182.2	-1620.4	-627.7						
RMS	871.1	694	414.9	5827	2265.2	438.4						
1/2 P-P	1515.6	1365.4	895.9	9470.6	4690.4	708						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	521.8	-944.8	266.3	-770	-154.6	-308.9	5500.6	-1749.1	2042.1	343.5	-413.7
	2nd	-162.1	407.9	-254.3	225.5	-325.4	-10.2	1550.8	327.5	132.8	-43.6	290.7
	3rd	186.6	290.1	231.9	243.6	221	88.7	-261	5.9	159.2	-72.4	-20.8
	4th	-47.5	57.2	-42.5	87.6	-13.3	100.6	8.9	-1494.6	-396.4	-12.7	43.1
	5th	-104.8	70.5	-133.8	99	-107.7	91.2	-73.2	-42.9	44.7	-13.6	-6.8
	6th	20.6	-25.1	29.9	-41.3	25.8	-39.5	15.6	14.7	-39.1	6.8	-10.2
	7th	21.2	23.5	48.7	52.7	53.4	45.6	-7.7	-5.5	50.3	6.6	6.6
	8th	5.8	-3	0.5	-26.1	0.3	-28.5	-1.8	-53.2	-8.6	1.5	3.7

RUN/POINT 41/29	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	1165.6	1750.6	1235.3	1235.3	1235.3	1235.3	1235.3	1235.3	3428.1	1918.8	3428.1	1918.8
RMS	1159.6	6576.7	1283	1283	1283	1283	6304.4	6304.4	5316.5	3655.6	5316.5	3655.6
1/2 P-P	2152.9	10670.2	2456.2	2456.2	2456.2	2456.2	9991	9991	8132.8	6333.5	8132.8	6333.5
HARMONIC	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	139.3	655.9	-5449.7	-7059.7	-835.1	-80.6	6577.4	-5422.5	5630.1	-4529.7	3665.8	-3256
2nd	972.7	1044.7	-1796.7	-1725.4	-1032.3	-1160.2	1886.5	1646.2	1467.7	1334	810.6	506
3rd	-331.6	-112.6	-200.6	94	-90	285.9	110.5	296.5	82.4	247.3	-3.1	16.6
4th	-27	34.3	301.3	11.5	-47.1	-0.3	129.4	-8.5	-116.5	-22.7	-1203.3	-109.8
5th	-45.5	-32.3	80.8	-15.6	21.7	-67.9	-28.2	71	-18	43.4	46.2	-63.3
6th	-3.9	10.6	-3	-19.3	-4.2	-13.3	16	49.5	11	31.4	24.6	-54.5
7th	-5.3	-3.7	-2	29.5	-11.4	12.4	-11.1	46.4	-17.1	28.8	-19.7	-17.9
8th	6.4	3.1	36.2	-5	3.4	14.5	39.1	-31.1	40.1	-16.8	6.7	-10.7
RUN/POINT 41/29	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-151	-2601.7	-634.7	463.8	0	0	5377.4	6423.4	-400.1	-361.2	39.5	39.4
RMS	2929.4	197.8	484.3	327.8	0	0	-1838.3	-1698.3	76.6	-264.5	9.5	-20.3
1/2 P-P	5669.3	-40.2	768	48	0	0	208	-40.8	38.3	-59	0.6	0.8
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2591.7	-2601.7	-367.1	463.8	0	0	5377.4	6423.4	-400.1	-361.2	39.5	39.4
2nd	447.3	197.8	-26	327.8	0	0	-1838.3	-1698.3	76.6	-264.5	9.5	-20.3
3rd	-42.2	-40.2	72.2	48	0	0	208	-40.8	38.3	-59	0.6	0.8
4th	-1724.7	-0.5	0.8	48.5	0	0	88.2	-2.6	-14.4	39.7	0.4	0.2
5th	61.7	-125.8	13.2	11.7	0	0	-97.5	0.4	-3.7	12.9	0	0
6th	21.8	-70.8	8.8	-8.1	0	0	16.6	-28.9	-8.1	5.6	0	-0.1
7th	-13.4	-48	-8.1	-6.4	0	0	19.4	28.8	-5.4	4.2	0	0
8th	-28.6	19	2.5	2.7	0	0	30.1	0.6	1.4	3	-0.3	0.1

RUN/POINT 40/34	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2267.3	-1095.6	-234.4	0	0	0	132.4	-283				
RMS	1196.3	700.9	344.4	0	0	0	593.1	1015.1				
1/2 P-P	2256.2	1343.2	636.2	0	0	0	1194.9	1842.4				
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	103.3	-315.9	97	-304.3	173.9	-382.2	0	0	320.4	-558.9	626.7	-836
2nd	-553.4	-1496.3	-285.1	-860.8	-75.2	-163.1	0	0	102	407.1	128.9	866.9
3rd	-286.1	220.3	-158.2	109.2	-12.6	-5	0	0	154.6	-131.7	425.5	-62.5
4th	-159.9	-96.3	-65	-50.5	39.9	25.4	0	0	136.7	88.9	49.4	38.7
5th	-6.1	86.8	6.2	24.8	30.3	-56.4	0	0	38.7	-146.3	-18.1	46.1
6th	-5.6	-28.3	2.7	-9	11.7	17.9	0	0	8.8	48.2	-17.2	-33.5
7th	12.5	-17.6	4	-5.5	-11.2	13.6	0	0	-31.9	30.6	58.5	-30.9
8th	-26.4	25.2	6.8	5.4	53.8	-19.4	0	0	67.4	-39.1	-84.2	28.2
RUN/POINT 40/34	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-440.4	-524.5	-344.5	-6430	-2281.1							
RMS	944.1	787.6	511.8	2060.1	1112.4							
1/2 P-P	1821.8	1698	1294.1	3747.1	2758.9							
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	451.8	-795.7	251.8	-587.7	-32	-170.3	-2238.1	-841.7	-929.4	329.3	222.2	-458.4
2nd	197.9	651.7	143.8	399.9	0.4	44.4	697	1415.3	3.3	-105.9	12.1	261.3
3rd	505.3	141	556.8	175.7	456.6	85.6	-157.5	-161.2	388	105.9	-0.3	-40.8
4th	-273.1	-69.4	-345	-22.3	-218.7	50.6	117	49.3	-600.4	599.1	21	93.7
5th	-108.9	255.2	-196	287.2	-206.1	235.7	39.7	-113.6	-230.9	163.8	-8.5	-19.8
6th	-3.5	-23.1	18.3	-56.5	-9.6	-72.1	41.3	23.2	30.7	-80.1	17.3	-3.3
7th	-10.6	2	-25.2	72.5	1.3	61	0.1	10.3	-27.4	3.4	4.9	9.4
8th	47.1	-19.7	49.5	-54.2	42.9	-21.6	39.3	142.6	-65.7	-146	0.4	5.1

RUN/POINT 40/34	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2446.1	876	-3971.6	-3385.4	-2453.4	362.5	-4422.5	1041.5	-1526.1	941.7	-311	152.2
RMS	1390.6	1501.6	2712.6	-1455.5	1485.8	-1586.8	3063.1	1558.9	2518.6	1199.9	1720.7	418.2
1/2 P-P	2800	249.1	4792	201.9	3072.3	-262.6	5379	158.6	4526.7	92.3	3372.6	-120.7
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	579	876	643.9	-3385.4	-1116.9	362.5	3820.8	1041.5	3158.3	941.7	2219.9	152.2
2nd	563.6	1501.6	-660.1	-1455.5	-527.1	-1586.8	630.7	1558.9	462.9	1199.9	243.3	418.2
3rd	233.9	249.1	-139.9	201.9	293.6	-262.6	180.5	158.6	115	92.3	-203.6	-120.7
4th	-140.2	-98.9	180.3	-0.1	-151.6	-111.4	90.1	78.1	-11.7	141.5	-397.3	389.7
5th	-112.8	-4.9	130.6	56.7	-16.4	-140.7	-24	150.3	-2.4	92.9	160.3	-151.2
6th	-5.4	35.7	-1.4	-56.1	2.5	-23.3	-17	35.7	-4.1	15.7	58.8	-81.2
7th	-20	-23.1	-29.3	19.5	-17	27	-28	0.1	-27.6	-2.5	-19.1	-3.5
8th	-23.3	46.7	31	117	5.8	56	30.6	119.5	21	109.1	10.9	62.5
RUN/POINT 40/34	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1142.7	-146.2	-532.3	519.6	0	0	-5796.2	2704.8	-589.6	-242.4	-124.2	37.5
RMS	1415.3	74.8	468	295.1	0	0	2360.9	-1452.1	416.3	-254.7	58.3	-12.7
1/2 P-P	3002.1	370.3	767.7	83	0	0	4167.7	-145	690.2	-3.4	92.8	-0.4
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1615.2	-146.2	-244.3	519.6	0	0	-1019.3	2704.8	-458.3	-242.4	72.3	37.5
2nd	74.2	74.8	9.1	295.1	0	0	-630.2	-1452.1	3.3	-254.7	2.9	-12.7
3rd	-370.3	-149.8	-6.9	83	0	0	186.1	-145	42.3	-3.4	0.2	-0.4
4th	-539.1	574.5	12.6	109.9	0	0	67.4	55.3	30.3	90	0.6	-1
5th	223.5	-294.5	2.6	26.5	0	0	-124.9	-57	-26.9	1.7	-0.2	-0.1
6th	99.3	-119.3	18.1	4.3	0	0	17.4	6.3	-17.3	-1.7	0	0
7th	15.1	-4.9	-1.5	-8.4	0	0	-12.9	1.1	-8.4	3.1	-0.1	0.1
8th	-15.1	-48.8	0.7	4.2	0	0	37.5	142.1	-0.1	1.9	0.1	0.1

RUN/POINT 40/35	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1000	-312.2	-249.1	-391.5	0	0	0	0	211.9	-619	-245.4	-974.9
RMS	1287.7	750.1	-844.2	-145.5	366.2	0	0	0	619.1	422.1	1078.7	860.2
1/2 P-P	2415.5	1437.3	48.3	-25.4	761.1	0	0	0	1143.3	-105.4	1872.3	-42.4
HARMONIC	1st	-128.7	-66.9	-37.1	47.5	13.1	0	0	129.6	52.4	10.6	37.6
	2nd	-47.1	53.5	10.4	40.2	-44.6	0	0	79.8	-98.9	-8.2	29.1
	3rd	-138	-75.2	-8.9	28	21.3	0	0	40.8	60.8	-33.3	-33.4
	4th	-128.7	-46.9	-8.8	-16.6	32.1	0	0	-32	70.3	63.1	-68.3
	5th	-24.4	-0.9	4.1	25.9	-36.9	0	0	15.5	-56.8	-33.5	70.6
	6th	1.7	-2.5									
	7th	2.2	12									
	8th											
RUN/POINT 40/35	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-473.4	-628	-679.6	-199	-499.9	-5559.8	-2097.1	-583.6	-2097.1	-583.6	-2097.1	-583.6
RMS	974.7	791.6	369.4	25.7	522.5	3097.3	1306.2	442.4	1306.2	442.4	1306.2	442.4
1/2 P-P	1854.5	1574.3	82.4	5.5	1215.9	6076.2	2749.9	732.8	2749.9	732.8	2749.9	732.8
HARMONIC	1st	509.5	-923.2	263.6	-679.6	-199	-3671.7	322.2	-1424.3	708.9	263.9	-479.7
	2nd	62.6	625.4	-41.1	369.4	25.7	1322.2	1679.9	183.7	-16.2	11.3	289
	3rd	449.5	74.2	506.8	82.4	5.5	-201.9	-133.6	305.9	59.2	-33.7	-35.8
	4th	-291	7.9	-370.1	61.3	110.7	97.8	33.9	-279.8	479.9	18.1	55
	5th	-205.3	159.3	-303.3	175.4	145.8	82.6	-117.7	-281.7	165.4	-27.4	-15.3
	6th	-23.6	-54.4	4.2	-86	-2.1	17.2	51.3	55.6	-126.3	15.7	-2.7
	7th	-6.4	-1.5	-19	87.9	9.8	65.7	-13.6	-72.1	42.9	4.3	9.6
	8th	32.3	-28	-13.5	-88.7	-20.5	103.9	140.9	-127.9	-146.4	-1.3	3.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144
40/35												
MEAN	-1129.1	-3146	-1116.1	-3644.8	-800.3	29.2						
RMS	1403.4	3751	1532.8	4081.4	3391.7	2338.7						
1/2 P-P	2855.8	7019.8	3328	7786.7	6493.6	4342.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144
1st	492.8	747.1	-560.5	-4732.5	-1076.3	298.1	5260	-142.3	4418.9	-45.9	3074.2	-539.5
2nd	911.5	1449.5	-1279.9	-1719	-897.5	-1533.1	1207.5	1786.6	924.6	1408	527.2	521.2
3rd	109.2	112	-163.1	214.2	158.6	-127	203.2	123.7	136.8	71.9	-188.4	-100.8
4th	-99.1	-71	145.6	-17.3	-104.7	-75.4	103.9	52.6	21.4	103.3	-314.3	296.7
5th	-93.7	-45.2	94.6	62.3	26.3	-119	-49.2	187.4	-22.8	112.5	167	-175.7
6th	26.6	40.6	-46.2	-54.7	-8	-33.6	19.9	92	18.1	53.3	30.2	-103.8
7th	-32.5	-15.3	-20.1	-21.7	-0.2	44.2	-27.4	18.4	-24.5	9.1	-13.1	-6.1
8th	-11.4	35.3	88.5	122.9	24.7	28	87.9	117	74.3	112.1	38.4	56.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
40/35												
MEAN	-955.7	-583.4	0	0	-5076.1	-648.6	-126.1					
RMS	1817.4	499	0	0	3358.2	443.6	60.4					
1/2 P-P	3168.9	795.9	0	0	6554	740	97					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1
1st	2263.7	-672.1	-284.9	543.7	0	0	223.7	4174.6	-477.6	-283.8	71.5	42.7
2nd	267.9	160.3	14.1	327.8	0	0	-1170.2	-1661.5	18.8	-276.9	4.7	-15.8
3rd	-340.1	-97.4	24.7	74.8	0	0	177.1	-156.1	44.8	-27.5	0.6	0.2
4th	-424.1	461	15.2	70.9	0	0	64.8	69.3	17.9	51.8	0.3	-0.6
5th	247.9	-340.6	16.5	23.8	0	0	-119.3	-83.7	-18.3	21.2	0.1	0.3
6th	33.9	-170.3	20.1	1.7	0	0	22.6	-56.7	-17.3	-1.2	-0.1	0.1
7th	9.5	-30.9	-0.8	-10.1	0	0	50.3	19.2	-10.2	1.4	0	-0.1
8th	-39	-43.9	-0.2	3.8	0	0	95.5	131.9	-2.1	1.6	-0.2	-0.2

RUN/POINT 40/36	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-395.8	-172	72.4	-214.5	249.2	-376.4	0	0	302.4	-607.9	-153.8	-1001
RMS	1318	-1526.1	761.8	-877.6	348	-146.9	0	0	617.9	447.4	1112.7	901.2
1/2 P-P	2593.8	-120.7	1529.9	-22.8	761.3	-36.6	0	0	1155.5	-66.6	1917.8	40.4
		-111.4		-29.8		18.3	0	0		51.3		32.9
		-54.5		16.2		-46.3	0	0		-109.3		20.6
		-11.7		4.9		20.8	0	0		63.9		-29.7
		2.2		-0.2		31.5	0	0		63.4		-71.6
		4.1		13.4		-36.8	0	0		-53.5		61.5
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	-81.8	-172	-23.2	-214.5	143.6	-376.4	0	0	338.2	-607.9	730	-1001
	-979.4	-1526.1	-543.5	-877.6	-177	-146.9	0	0	111.5	447.4	129.9	901.2
	-120.7	-12.7	-63.4	-22.8	-10.1	-36.6	0	0	70.8	-66.6	318.6	40.4
	-111.4	-57.7	-39.5	-29.8	43.2	18.3	0	0	115.7	51.3	8.6	32.9
	-54.5	66.5	-13.9	16.2	44.5	-46.3	0	0	97.3	-109.3	-4.5	20.6
	-11.7	-34.8	4.9	-9.5	24.7	20.8	0	0	30.1	63.9	-29.7	-29.7
	2.2	-32.1	-0.2	-6.9	-8.9	31.5	0	0	-22.9	63.4	47.9	-71.6
	4.1	28.8	13.4	1.4	26.3	-36.8	0	0	14.3	-53.5	-33.2	61.5
RUN/POINT 40/36	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-460.5	-990.6	-672.7	-748.4	-587.7	-238	-4799.2	1323.3	-2067.4	994.4	-607.7	-493.9
RMS	1026.5	671.2	817.9	402.1	503.3	35.8	3405.1	1795.9	1513.4	-20.5	465.3	307.5
1/2 P-P	1858.4	124.7	1659.2	114.3	1205.5	5.3	7381.8	-136.2	3063.8	164.2	761.3	-26.7
		15		67.7		113.8		27.9		347		62.7
		-210.8		225.6		190.2		-131		-714.2		-15.2
		-241.9		-82.9		68.8		74		-264.3		-11.8
		-7.5		19		23.4		-43.5		54.2		8.4
		4.8		89		84.6		74.5		-39.7		3.9
		33.1		-69.7		-44.5		101.6		-186.4		0
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
	551.4	-990.6	285.7	-748.4	-110.7	-238	-3905.4	1323.3	-1484.8	994.4	292.6	-493.9
	92.5	671.2	-12.5	402.1	-170	35.8	1483.8	1795.9	172.1	-20.5	5.4	307.5
	425.5	124.7	487	114.3	415.5	5.3	-198.1	-136.2	347	164.2	-38.4	-26.7
	-210.8	15	-259.4	67.7	-154.1	113.8	119.9	27.9	-714.2	548.5	4.2	62.7
	-241.9	193.1	-336.1	225.6	-289.5	190.2	68.8	-131	-264.3	208.4	-34.6	-15.2
	-7.5	-59.9	19	-82.9	6.7	-76	23.4	74	54.2	-166.5	17.5	-11.8
	4.8	4.9	3.4	89	26.9	84.6	52.6	-43.5	-39.7	74.5	10.6	8.4
	33.1	-22.9	-2.3	-69.7	-8.8	-44.5	162.4	101.6	-186.4	-101.4	0	3.9

RUN/POINT 40/36	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-499.4	-2397.5	-470.6	-3010.1	-247.5	236.5						
RMS	1357.7	4071.8	1478.4	4344.3	3619.9	2529.9						
1/2 P-P	2944	8076.1	3380.7	8444.1	6949.5	4600.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	444.1	514.1	-1475.9	-4996.9	-867.9	239.1	5507.6	-1106.3	4653.9	-862	3182.1	-1072.2
2nd	940.1	1485.9	-1443.3	-1809.3	-946.5	-1585.6	1353.5	1934.1	1036.2	1526.3	562.9	571.4
3rd	-15.7	96.3	-160.5	232.2	130.1	-10.2	214.7	148.2	139.1	91.9	-205.4	-117.8
4th	-86.7	-54.4	143	1.4	-94	-58.7	72.6	38.5	-45.5	115.6	-546.5	415.4
5th	-99.1	-48.4	106.2	52.3	37.8	-124.3	-14.9	191.3	1	110.4	145.1	-200
6th	9.6	35.7	-44.7	-72.1	5.4	-28.9	27.6	98.8	20.6	51.6	29	-132.4
7th	-29.7	-12.2	-26.5	-18	-4.9	37.3	-15.7	8.4	-20.9	-2.5	-33.2	-23.6
8th	2.6	30.7	138.5	82.6	28.7	23.7	132.2	59.2	117.1	64.9	56.1	36.6
RUN/POINT 40/36	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-896	-608.3	0	-4338.9	-677	-127.8						
RMS	2029.3	518.5	0	3688.6	464.7	57.1						
1/2 P-P	3666.7	838	0	7574	770.6	94.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	2337.3	-1059.3	-309.9	553.6	0	0	1251.7	4470.9	-490	-311.1	67.4	40.7
2nd	267.4	175.5	10.8	349.3	0	0	-1315.5	-1785.1	29.1	-292.7	3.6	-16.6
3rd	-378.8	-132.2	30.5	61.5	0	0	187.5	-158.3	40.3	-30.8	0.8	0.1
4th	-720.1	659.5	10	76.6	0	0	72.7	57.2	2.1	61.7	0.7	-0.3
5th	212.4	-374.2	21.7	23.4	0	0	-162.7	-71.5	-15.6	25.8	0	0.3
6th	30.3	-213.3	20.9	-7.1	0	0	8	-65.2	-16.2	7	0	0.1
7th	-22.2	-45.4	-8.9	-10	0	0	51.4	0.1	-10.6	7.2	-0.1	0
8th	-65.1	-22.2	1.5	5.4	0	0	143.3	89.9	-1.5	3.3	-0.1	0.4

RUN/POINT 40/37	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570																																																																																																
	MEAN	208.9	448	401.4	0	356.7	-96.1	RMS	1285	738.7	328.3	0	612.1	1108.2	1/2 P-P	2139.2	1326.6	609.1	0	1026.2	1804.8																																																																																						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE																																																																																							
	1st	-358.9	-120.9	-193.5	-181.1	76.6	-373.2	0	328.9	-613.9	751	-1008.3	2nd	-1005.8	-1445.6	-563.2	-829.2	-192.6	-126	0	94.3	445.5	48	878.1	3rd	-102.2	-111.1	-51.3	-78.5	-12.5	-47.4	0	57.2	-35.4	300.6	-6.7	36.3	114.5	4th	-89.1	-40.4	-31.4	-18.8	33.3	21.3	0	92.4	43.8	-1.1	18.4	5th	-56.7	84.6	-14	25.3	47.7	-47.6	0	107.5	-123.8	-32.9	-26.4	6th	-9	-40.3	9.2	-12.8	30.7	19.9	0	37	66.5	51.5	28.1	-66.4	7th	4.9	-29.1	4.5	-8.7	0.6	24.6	0	-12.2	20.6	58.7	8th	23.6	19.1	13.5	-1.9	-0.9	-30.9	0	-27.3												
	RUN/POINT 40/37	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400																																																																																															
		MEAN	-439.2	-695.1	-651.5	-4232.8	-2007.7	-630.5	RMS	1042.8	842.7	514.8	3736.5	1785.5	483.8	1/2 P-P	1914.3	1730	1166.4	6751.1	3556.4	750.1																																																																																					
	HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE																																																																																						
		1st	579.6	-1025.3	302.6	-794.9	-122.3	-273.1	-3909.1	2555.8	-1574.8	320.8	-505	2nd	-19.5	648.3	-117.9	390.3	-242	1721	1713	286.8	9.4	314.8	3rd	400.6	193.5	460.1	177.6	395.7	-170.3	-177.6	274.9	239	-52.1	-24.3	4th	-163.4	26.1	-196.4	70.9	-101.6	136.4	2.3	-1094.9	570.6	-15	64.4	5th	-262.2	230.1	-349.6	280.1	-287.3	29.3	-114.5	-221.5	158.5	-43.5	-11.2	6th	-6.5	-72.7	16.6	-98.5	5.4	-82.4	45.9	92.2	1.9	12.5	-18.2	7th	15	8	25.8	67.3	44.6	56.5	-5.1	-58.5	8.1	16.8	3.8	8th	17.1	-12.9	-55.8	-46.9	-67	-30.3	109.3	-2.1	-135.7	15.6	2.2	9.6										

RUN/POINT 40/37	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	120		-1857		159.1		-2456.6		253		445.9	
RMS	1260.5		4401.4		1356.3		4555.3		3822.7		2752.2	
1/2 P-P	2174.4		7619.7		2538.6		7712.7		6339.2		4670.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	390.5	246	-2554.4	-5123.3	-551.8	183.4	5487.6	-2234.3	4683.5	-1826.1	3222.5	-1685.9
2nd	954.2	1411.2	-1622.5	-1755.3	-970.3	-1527.8	1572.8	1922.9	1222.6	1519.9	693	546.4
3rd	-133.8	80.6	-182.8	201.4	109.8	91.1	201.2	190.1	136.2	123.5	-148.8	-135
4th	-70.3	-38.7	210.1	-20	-79.3	-54.2	73.2	48.7	-89.2	117.9	-792.3	410.7
5th	-119.6	-55.4	109.5	35.5	33.8	-143.6	16.7	160.6	15.6	92.9	98.6	-184.4
6th	2.3	36.6	-29.2	-75.5	2.6	-29.4	26.5	85.9	17.4	41.7	16.8	-136.7
7th	-31.1	-15.2	-55.1	-18.1	-13.7	33.7	-55.4	1.4	-57.9	-10.7	-46.6	-26.2
8th	17.4	23	101.2	-4.1	27.4	18.2	70.9	-17.4	68.3	-8.7	18.6	4.8
RUN/POINT 40/37	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-807.5		-628		0		-3783.3		-705.2		-127.1	
RMS	2268		532.1		0		3989		480.8		51.2	
1/2 P-P	4062		830.7		0		7116.4		758.8		80.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	2392.2	-1512	-336.6	562.5	0	0	2392.6	4510.7	-497.6	-340.4	59.8	37.3
2nd	369.5	158.7	6.2	351.7	0	0	-1546.7	-1769.8	33.8	-296.4	2.3	-16.7
3rd	-290	-163.9	37.2	52.5	0	0	213.5	-129.1	35.6	-37.9	0.9	0.7
4th	-1061	671	-11.6	75.1	0	0	37.9	37.1	-14.3	66.1	0.5	0.1
5th	135.5	-319.1	31.1	22.6	0	0	-148.5	-29.5	-15.2	34.9	0	0.2
6th	19.5	-205.8	18.9	-11.2	0	0	-2.4	-70.5	-15.5	9.8	-0.1	-0.1
7th	-20.8	-40.3	-17.2	-4.9	0	0	1.4	-15.7	-8.8	15.1	-0.1	0
8th	-49.5	19.5	3.9	7.6	0	0	85.1	0.6	0.5	7.6	0	-0.3

RUN/POINT 40/38	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2114	-3714.6	-2104.9	-4123.3	-1263.4	-166.4						
RMS	1330	2017.8	1374.8	2353.1	1924.9	1292						
1/2 P-P	2249.6	3792.9	2479.8	4212.2	3535	2842.3						
HARMONIC	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	45.8	-153.8	1570	-1611.7	-50	-143	1982.2	1942.9	1668	1630	1342.5	486
2nd	683.4	1687.1	-779.4	-1470.5	-673.6	-1753.9	805.9	1556.5	597.5	1179.1	286.7	345.3
3rd	218.9	234.5	-105.7	217.7	266	-232	214.5	100.8	129.7	47.1	-262.6	-117.9
4th	-60.7	-87.2	114.9	-37.2	-64.9	-102.3	13.7	98.3	-19.5	202.2	-135.7	680.7
5th	-144.6	-59.6	112.1	115.4	46.3	-150.8	-86	122.4	-23.2	81.8	289.4	-66
6th	23.2	24	-7.5	-24.9	-21.5	-19	36.1	21.2	36.5	2.6	46.1	-90.4
7th	-29.5	-12.2	-62	-21.2	-7.2	33.6	-50.9	-1.6	-44.7	-10.6	-20.4	-22.2
8th	-2.9	24.2	104.9	95.2	1	47.2	117.7	105.8	101.6	97.4	47.1	52.1
RUN/POINT 40/38	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1053.7	-546.4	0	-5530.4	-608.7	-122.9						
RMS	1257.5	484.4	0	1887.4	438.8	52.3						
1/2 P-P	2901	802.3	0	3784.6	718.7	83.2						
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1076.3	-3.9	-256.8	538.5	0	0	-1907.4	844.4	-483.7	-260	69.7	20.5
2nd	29.9	-25.2	20.5	304.9	0	0	-726.6	-1398.7	-4.4	-264.5	3.5	-13.4
3rd	-482.1	-101.7	-45.2	58.2	0	0	148.1	-157.2	23.5	30.2	0	-0.9
4th	-122.7	944	-15	107.8	0	0	14.9	90.9	11.7	97.4	0.8	-0.9
5th	443.8	-168.2	11.8	30.6	0	0	-81.9	-123.3	-25.3	10.5	-0.3	0
6th	47.9	-109.6	23	-5.4	0	0	5.9	-29.6	-20.1	6	0.1	0
7th	29.6	-26.5	-2.6	-8.7	0	0	-12.1	-9.1	-7.3	3.8	0.2	0.1
8th	-48.6	-48.1	3.1	3.6	0	0	100.6	117.7	3.2	4.6	-0.1	0.2

RUN/POINT 40/39	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1135	-42.7	-391	-146.7	48.5	-358.3	0	0	218.6	-622.7	-239.7	-970.7
RMS	1370	1563.5	792.1	897.3	383	149.6	0	0	653.1	459.1	1116.8	953.3
1/2 P-P	2583.3	60.4	1523.8	19.1	735.4	-27.3	0	0	1132.6	-91.6	1909.3	-18.6
		-65.5		-33		16.6	0	0		50.6		24.2
		85.5		25.2		-47.9	0	0		-120.6		35.8
		-36.1		-11.6		21.4	0	0		60.7		-31.7
		-28.5		-7.6		26.1	0	0		56.1		-63.2
		31.6		-0.8		-44.9	0	0		-63.8		79.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	439.1	-42.7	297.8	-146.7	281.7	-358.3	0	0	389.1	-622.7	716.7	-970.7
2nd	-1011.1	1563.5	-559.7	897.3	-180.5	149.6	0	0	123.8	459.1	189.4	953.3
3rd	-96.4	60.4	-53.1	19.1	-11.6	-27.3	0	0	56.3	-91.6	299.6	-18.6
4th	-64.5	-65.5	-10.8	-33	49.8	16.6	0	0	94.9	50.6	8.6	24.2
5th	-112.5	85.5	-35.6	25.2	68.1	-47.9	0	0	176.9	-120.6	-4.2	35.8
6th	-23	-36.1	-1.1	-11.6	24.8	21.4	0	0	38.1	60.7	-26.9	-31.7
7th	-2	-28.5	-3.4	-7.6	-10.6	26.1	0	0	-26.3	56.1	48.5	-63.2
8th	8.5	31.6	13.3	-0.8	18	-44.9	0	0	1.3	-63.8	-14	79.1
RUN/POINT 40/39	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-449.7	-923.8	-605.2	-685.5	-477.2	-208.7	-4813.7	-624.2	-1999	556.7	-608.1	-520.1
RMS	1019.8	703	836.1	428.7	544.7	51.8	3583.1	1831.4	1427.7	-23.1	465.5	292
1/2 P-P	1957.5	92.7	1763.9	74.6	1406.2	-31.7	6617.1	-92.4	3427.9	-2.9	736.6	-4.7
		-23		19.8		69.3		17.8		829.9		70.3
		201.7		250.2		224.2		-132.5		158.8		-23.3
		-53.5		-77.9		-68.6		72.6		-132.2		-10.5
		2.7		83.9		73.5		-45.6		75.1		11.7
		-33.8		-71.8		-42.5		53.4		-45		1.1
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	518.7	-923.8	266.7	-685.5	-102.5	-208.7	-4407.5	-624.2	-1484.3	556.7	261.8	-520.1
2nd	150.9	703	31.1	428.7	-153.9	51.8	1405.7	1831.4	80.9	-23.1	32.4	292
3rd	430.4	92.7	488.8	74.6	405.9	-31.7	-214.3	-92.4	381.4	-2.9	-7.9	-4.7
4th	-182.2	-23	-215.9	19.8	-108.3	69.3	45.9	17.8	-458.6	829.9	-7.3	70.3
5th	-381.4	201.7	-515.4	250.2	-417.5	224.2	137.2	-132.5	-427.8	158.8	-32.4	-23.3
6th	-25.1	-53.5	-27.8	-77.9	-53.9	-68.6	39.1	72.6	52.8	-132.2	21.8	-10.5
7th	-2.7	2.7	-6	83.9	11.7	73.5	9.3	-45.6	-8.4	75.1	9.1	11.7
8th	22.2	-33.8	-37.1	-71.8	-39	-42.5	197.2	53.4	-221.2	-45	1.6	1.1

RUN/POINT 40/39	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1260.8	-2524.6	-1257.1	-3096.1	-364	252.7						
RMS	1534.5	4250.5	1706.7	4647.3	3851.1	2588.3						
1/2 P-P	3226.3	7690.7	3495.9	8130.2	6799.3	4748						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	305.3	1085.5	331.7	-5499	-1441	133.7	6057.1	674.5	5050.8	647.8	3428.2	-143.1
2nd	960.9	1544.5	-1347.8	-1863.8	-981.3	-1627	1332.4	1954.8	1013.7	1547.7	538.2	596.9
3rd	75.1	87.9	-130.8	220.5	109.5	-91	230.8	118.3	149.5	74.8	-209.3	-74
4th	-37	-60.6	113.1	3.3	-44.7	-65.4	30.8	57.4	-54.5	160.8	-421.9	607.9
5th	-152.2	-107.9	137.3	142.2	99.8	-136.1	-129	210.3	-57.4	132	313.9	-123.7
6th	16.6	35.5	-42	-75.9	-0.8	-31	25	98.5	30.2	52	79.4	-120
7th	-30.5	-16.6	-48.6	-28.7	-5.1	35.4	-30.2	-20	-25.8	-27.3	-21.1	-34.8
8th	12	27.6	163.7	26.2	34.5	29.7	184.2	17.1	169.5	26.2	91.2	8
RUN/POINT 40/39	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-832.8	-606.1	0	-4329	-670	-134.7						
RMS	2018.6	519.2	0	3853.4	466.9	65.3						
1/2 P-P	3603.6	813.9	0	6802.1	737.4	99.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	2464	-439.7	-280.2	582.4	0	0	-652.3	4886.1	-520	-281.7	75.5	50.4
2nd	219.8	194.2	33.5	330.8	0	0	-1281.7	-1815.3	-1.1	-281.6	6.1	-15.1
3rd	-383.3	-64.7	1.6	36.8	0	0	125.6	-180.2	11.1	-3.5	1.1	-1.5
4th	-529.1	897.5	-8.6	80.2	0	0	1	63.1	-5	66.4	0.7	-0.4
5th	491.3	-294.9	18.1	32.4	0	0	-124.8	-170.5	-25.2	19.2	-0.2	0.1
6th	92.5	-200.1	27.5	-7.6	0	0	19.2	-49.9	-22	6	0.1	-0.1
7th	8.5	-28.9	-4.5	-11.4	0	0	16.7	-31.5	-11.2	4.4	-0.3	0.1
8th	-67.9	-14.9	3.2	3.7	0	0	184.4	44.1	0.3	2.6	0	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, r/R=0.725		Blade 1, r/R=0.800		Blade 1, r/R=0.900		Blade 1, r/R=0.144		Blade 1, r/R=0.570		Blade 1, r/R=0.400	
MEAN	-424.4	-630.9	-555.1	-4116.4	-1930.1	-640.5						
RMS	1018.4	832.7	534	3835.6	1666.2	489.8						
1/2 P-P	1948.2	1739.4	1279.7	7147.2	3956.3	757.7						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	538	-953.2	272.5	-718.8	-127.5	-231.3	-4754.6	551.3	-1640	901	285.9	-541.6
3rd	33.7	674	-85.6	411.6	-238.5	55.2	1696.5	1740.4	200	-28.4	26.7	305.4
4th	380.1	179.4	434.7	139.3	362.9	-2.1	-200.1	-135.6	249.7	74.8	-26.5	8.2
5th	-134	-6.7	-155.4	26.6	-67.8	65.5	73.4	22.4	-1032.1	505.1	-16.7	78.2
6th	-409.4	189.1	-534.7	237.4	-419.2	213	89.4	-141.1	-377.9	123.3	-39.5	-24
7th	-14.4	-55.2	-20.7	-66	-45.8	-50.9	14.2	93	66.2	-168.4	18.4	-15.6
8th	13	9.4	6.6	90.5	14.6	82.4	17.3	-18.6	-18.4	52.4	14.7	5.9
	23	-22.5	-37.1	-56.7	-47.1	-32.1	147.5	47.7	-185.5	-37.2	2.7	2.6

RUN/POINT 40/40	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-549.7	-1880.8	-548.7	-2426.2	-548.7	-2426.2	-548.7	-2426.2	248.2	535.7		
RMS	1414.3	4549.3	1599.3	4942.3	1599.3	4942.3	1599.3	4942.3	4115.6	2838.3		
1/2 P-P	2899.9	8365.6	3265.1	8702.1	3265.1	8702.1	3265.1	8702.1	7105.1	5088.6		
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	332.5	842.5	-713.9	-5871.8	-1223	140.4	6443.8	-438.2	5416.2	-290	3658.3	-773.8
2nd	979.6	1437.2	-1570.2	-1833.8	-1040.4	-1542.4	1614	1993.2	1248.3	1585.7	685.4	608
3rd	-132.8	72.9	-124.4	193.3	68	72.9	227.1	175.4	156.8	127.3	-136.8	-29.6
4th	-25.7	-58	188.7	48.9	-42	-73.2	68.5	73.9	-96.3	135.1	-801.7	396.5
5th	-156.1	-127.9	135.2	122.5	104.4	-149.2	-54.9	198.4	-11.5	120.4	266.6	-135.4
6th	5.5	32.8	-24.2	-85.3	-5.9	-31.3	39	86.7	40.9	40.5	82.9	-132.3
7th	-21.8	-20.6	-2.2	-3.2	-18	25.9	18.4	-10.9	9.5	-16.6	-25.9	-32
8th	18.9	24.8	124.1	30.4	32.1	28.2	143.9	1	132.3	11	68.8	8.5
RUN/POINT 40/40	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-710.8	-638.8	0	0	-3611.4	-708.5	-3611.4	-708.5	-137.5			
RMS	2265	539.7	0	0	4145.1	488.1	4145.1	488.1	62.5			
1/2 P-P	4140.8	831.3	0	0	7439.8	760.8	7439.8	760.8	97.4			
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2645.9	-899	-304.8	600.5	0	0	522.9	5269.1	-537.7	-306.6	72.1	47.9
2nd	336.8	199.9	30.6	342.2	0	0	-1596.7	-1801.7	6.8	-291.7	4.9	-16.9
3rd	-273.8	-34.7	15.6	18.6	0	0	132.2	-147.9	-4	-17	1.1	-1.2
4th	-1083.5	637	-16.1	84.2	0	0	-16.7	62.3	-18.8	71.1	0.8	-0.1
5th	393.2	-296.3	22.4	31.8	0	0	-159.4	-127.4	-20.2	26.1	-0.1	0.1
6th	100.2	-200	24.7	-12.2	0	0	-3.7	-66.2	-21.2	11.6	0	0
7th	-31.8	-36.9	-9.7	-7	0	0	33.4	-9.2	-9.4	9.6	-0.1	-0.1
8th	-54.9	-3.7	5.9	4.5	0	0	142.7	28.9	2.6	4.6	-0.3	0.1

RUN/POINT 40/41	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	418.3	-1066.6	273.1	-620.9	42	-82.4	-317.1	0	346.3	-658.5	785.6	-1095.9
RMS	1600.2	-1135	-1546.9	-642.5	-884.3	0	83.2	498.8	50.6	1029.2	50.6	1029.2
1/2 P-P	2997.4	-97.5	-222.2	-49.2	-141.8	-24	-56.3	0	39.1	4.5	309.7	171.4
HARMONIC		-59.5	-43.9	-13.7	-15.7	36.2	33.2	0	74.8	53.1	-17.6	43
	1st	-70.1	155.7	-17.1	52.3	63.4	-79.8	0	151	-221.4	1.1	18.7
	2nd	-16.4	-29.7	3.8	-8.7	27.1	16.7	0	42.7	49.9	-13.9	-10.5
	3rd	7.1	-37.2	4.7	-4.4	0	46.3	0	-18.2	83.6	39.9	-96.3
	4th	37.7	33.1	23.5	3.4	2.2	-41.9	0	-35.2	-64.2	27.7	86.1
	5th											
	6th											
	7th											
	8th											
RUN/POINT 40/41	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-451.2	-692.2	-635.8	-3777	-1896.9	-657.3						
RMS	1190.5	991.1	628.6	2971.8	2139.1	528.3						
1/2 P-P	2357.2	2087.8	1528.8	6549.7	4749.3	834.2						
HARMONIC												
	1st	609.8	-1107.6	324.3	-853	-122.8	-297.1	-2336	2252.9	-1289.7	1453.3	-552.1
	2nd	-21.5	789.8	-149.5	492.2	-300.2	88.1	1966.8	1489.5	335	-265.3	342
	3rd	462.4	218.9	530.7	159.1	437.8	-6.2	-210.8	-237.4	344.1	299.6	-9.8
	4th	-122.1	-13.5	-129.8	15.4	-35.2	49.7	132.1	-23.4	-1525.7	1255.4	-7.7
	5th	-364.4	407.9	-472.1	499.1	-357.8	387.3	-20.8	-178.6	-211.6	384.9	-10.8
	6th	-34.7	-62.8	-45.6	-74.2	-52.9	-43.8	25.6	77.4	73.2	-168.9	-24.4
	7th	7.3	11.3	4.6	109	12.1	105.7	6.8	-35.3	13.5	74.5	-7.1
	8th	20.8	-20.1	-72.1	-65.1	-87.7	-53.8	273.9	-315.9	-47.7	8.5	-0.3

RUN/POINT 40/41	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	372.4	-1603.3	399.1	-2011.9	632.3	658.4						
RMS	1398.9	3575.1	1471	3755.4	3172.8	2588.9						
1/2 P-P	2473.2	7340.8	2512.8	7370.1	6014.4	4914.4						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-37.4	-422.4	-2159.3	-3738.3	150.5	-215.4	4118.5	-1873.9	3579.8	-1578.3	2618.2	-1647.3
2nd	1055.3	1544.5	-1826.5	-1633.9	-1125.3	-1658.2	1907.5	1796.7	1501.2	1395.8	862.8	373.4
3rd	-251.3	103.5	-225.7	244.6	112.2	195.3	236.9	222	161.3	137.6	-176.6	-214.3
4th	-39.4	-50.4	251.1	-109.3	-53.8	-69.6	53	46.6	-152.5	219.8	-1050.1	985.4
5th	-220.7	-67	198.5	19.4	49.4	-226.6	68.3	223	55.4	110.6	121.2	-345.4
6th	12.9	29.9	-20.8	-77.5	-18.3	-28.5	52.9	86.4	40.6	36.7	35	-160.3
7th	-40.8	-10.9	-57.1	7.2	-15	40.6	-33.3	77.8	-46.4	51.3	-63.9	-19.1
8th	42.6	36.6	268	50.6	44.8	45.5	285.2	39.8	258.1	54	139.1	35.5
RUN/POINT 40/41	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-666.3	-652	0	-3298.5	-733	-120.2						
RMS	2477	576.8	0	3135.8	525.9	56.5						
1/2 P-P	5329.3	926	0	6423	839.9	95.5						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	2040.5	-1562.1	-357.1	609.1	0	0	1972.3	2996.3	-545.4	-362.9	73	23.1
2nd	467.3	-36.5	18.4	381.3	0	0	-1825.2	-1604.7	19.9	-327.3	7.4	-20.9
3rd	-332.7	-285.7	36.3	34.4	0	0	244.9	-166.2	18.4	-36	1.7	-0.7
4th	-1354.7	1501	-21.5	112.9	0	0	-21.3	13.3	-15	98.5	1.2	-0.4
5th	136.5	-565.9	51	21.6	0	0	-233.4	-20.1	-10.1	53.9	-0.2	0.3
6th	41.6	-228.5	14.7	-25.1	0	0	5.8	-93.3	-13.2	22	-0.1	-0.1
7th	-41.3	-83.7	-9.3	4.2	0	0	25.3	21	4.2	10.4	0	0
8th	-99.2	-5.6	10	-2.6	0	0	270.4	83.7	7.2	0.9	0.1	0.1

RUN/POINT 40/42	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2370.5	-1163.2	-281.1	0	84.7	-393.2						
RMS	1434.9	827.9	386.9	0	727.4	1229.9						
1/2 P-P	2528.8	1475.4	773.5	0	1307.6	2174.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-185.5	-296.4	-69.8	-318.1	134.7	-442.6	0	380.4	-674.4	718.7	-1057.5	
2nd	-915.3	-1711.7	-495.2	-977.2	-147.7	-158.5	0	143.8	516.5	290.7	1077.8	
3rd	-190.5	196.8	-112.8	94.8	-22.9	-16.3	0	86	-150.1	351.6	-132.3	
4th	-76.4	-78.2	-16	-35.9	48.3	27.8	0	101	79.1	23	-13.9	
5th	-174.5	140.7	-59.7	51.1	95.6	-56.1	0	272.1	-177.3	-8.7	47.3	
6th	-29.5	-24.5	-4.8	-1.4	24.9	26.2	0	42.5	52.8	-49	-30.2	
7th	4	-29.5	1.9	-11	-5	15.7	0	-20.9	47.3	30.2	-60.7	
8th	-9	15.5	6.3	2.1	26	-14.9	0	25.6	-22.8	-23.3	19.7	
RUN/POINT 40/42	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-457.6	-509.3	-297.7	-5438.7	-2041.8	-586.4						
RMS	1153.8	977.6	622.2	2351.5	1388.5	494.7						
1/2 P-P	2284.2	2023.2	1505.2	4874.6	3630.1	758.1						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	503.3	-968.8	276	-682.5	-35.7	-169.4	-2002	-1517.3	-906.5	461.1	242.5	-565.4
2nd	295.4	817.2	156.7	528.1	-77	114	1284.4	1544.8	-90.3	-208.7	55	295.3
3rd	528.4	6.6	593.2	-17.9	460.8	-115.8	-199.7	-2.9	500.7	-29.1	36.2	-19.6
4th	-180.3	-94.5	-186.7	-52	-57.2	-8.7	77	38.8	-537	1159.9	-25.5	114.2
5th	-535.9	278.4	-705.5	365.2	-528.1	330.6	232.4	-97.7	-799.1	7.8	-37.6	-26.4
6th	-13.6	-30.6	-23.5	-55.8	-84.9	-20.8	12.9	62.5	138.7	-147.7	26	-19.9
7th	-4.7	9.9	15.7	76.7	4.4	43.8	29.1	-2.3	-26.3	39.8	19	12
8th	17	-26.8	-2.6	-0.4	22.2	15.9	36.3	42.9	-71.3	-40.5	1.2	18

RUN/POINT 40/42	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-2495.9	-3318.6	-2500	-3680.7	-915	81						
RMS	1504.2	2832.9	1561.5	3225.3	2656.9	1786.9						
1/2 P-P	3071.8	5487	3321.9	5810.4	4851	3790.7						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	532.7	489.9	1289.8	-3080	-805.6	378	3607.4	1728.1	2991.3	1509.2	2142	330.8
2nd	893.2	1705.2	-1235.1	-1547.2	-852.7	-1760.8	1213.8	1623.5	923.6	1249.6	436.3	365.3
3rd	230.7	166.4	-33.1	241.5	181.4	-216.6	227.1	-20.2	136.9	-34	-261.1	-95.8
4th	-52.1	-82	116.6	-43.7	-52.9	-55.9	-32.7	74.1	-83.2	207	-299.4	775.9
5th	-193.9	-171.5	150.6	243.9	130.6	-160.4	-231.3	138.5	-96.7	95.4	507.7	-29.3
6th	26.9	28.8	-13.1	-52	-9.5	-27.9	-4.4	59.8	12	21	92.1	-130.9
7th	-37	-9.2	-8.9	32	-1.7	34.8	-9	20.5	-20.6	7	-49	-35.1
8th	-13.8	11.4	17.3	38.3	13.7	21.1	13.3	26.7	12.2	29.7	-13.2	36.5
RUN/POINT 40/42	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-867.7	-583.9	0	-4963.2	-637.6	-136.6						
RMS	1575.4	546.4	0	2453.5	489.9	71.3						
1/2 P-P	3463.1	843.4	0	4929.8	760.5	113.7						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1572.2	-158.1	-263.3	627	0	0	-1591.5	2266.7	-560.5	-262.7	93.6	33.1
2nd	84.1	-21.3	53	323.2	0	0	-1188.3	-1486.1	-33.3	-280.5	6	-15.5
3rd	-481.4	-15.2	-37.8	57.9	0	0	48	-174.5	12.1	40.7	0.2	-2
4th	-319.6	1098	-45.9	124.5	0	0	-38.9	93.5	-21.8	103.3	1.2	-0.5
5th	812.2	-153	17.8	34.7	0	0	-105.5	-239	-30.5	15	0	0.3
6th	114.5	-187.1	26.2	-16.7	0	0	32	-67	-25.2	13.3	0.1	-0.2
7th	-48.3	-57.1	-18.9	-12.4	0	0	23.3	4.7	-9.8	15.6	0	0.1
8th	-40.7	18.2	0.3	21.7	0	0	36.6	36.9	2.5	18.6	0.1	0.2

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb				
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$							
MEAN	-428.9	-570.4	-444.4	-4128.9	-1844.2	-651.9							
RMS	1076.5	927.1	615.2	4082.5	1848.1	521							
1/2 P-P	2209.3	2012.5	1432.4	7532.5	4121.6	795.1							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE							
	1st	522.5	-914.2	263.9	-654.3	-111.9	-177.6	-5057.4	-430.8	-1654.7	730.3	269.5	-592.5
	2nd	76.3	706.6	-70.3	434.3	-250.9	63.5	1937.8	1857	162.2	-19.8	53.4	311.9
	3rd	438.3	185.6	500	130.5	395.2	-31.3	-178.5	-41.3	308.3	4.7	-7.4	26.1
	4th	-134.1	-27	-130.8	4	-32.3	24.1	100.1	50.6	-1360.6	833.4	-18.8	108.5
	5th	-596.4	250	-760.1	327.2	-564.1	289.9	213.1	-154.7	-696	122	-52.7	-28.5
	6th	-12.6	-54	-35.8	-67.1	-88.4	-26.8	45	124.9	99	-210.5	20.7	-23.7
	7th	11.4	18.2	11.7	86.2	-10.8	59.4	0.2	-32.6	17.8	78.1	18.1	10.2
8th	18	-10.3	-24.5	-6.7	-25.3	2.8	21.9	-63.2	-38.2	4.9	8.3		

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		
	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.144	Blade 3, r/R=0.144	Blade 2, r/R=0.174	Blade 3, r/R=0.325	
40/43													
MEAN	-1315.7	-2001.2	-1286.6	-2492.2	154.9	577.4							
RMS	1682.6	4864.6	1796.9	5103.3	4234.4	2941.4							
1/2 P-P	3433.5	8686.5	3554.2	8628.1	7072.3	5169.9							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	596	1263.7	172.2	-6326.5	-1548.4	406.9	6672	457.3	5569.7	485.5	3763.9	-330.9
	2nd	1125.7	1513.3	-1845	-1869.9	-1123.5	-1582.8	1817.5	1925.6	1412.2	1533.1	754.4	561.6
	3rd	-92.9	108.8	-82.6	203.7	95.1	76.6	210.2	75.5	151.1	52.5	-121.3	-30.1
	4th	-10.7	-60	175.5	21.7	-19	-57.4	12.2	39.7	-179.1	160	-1031.4	688.8
	5th	-200.8	-180.8	159	198.6	160.3	-166.6	-166.8	244.6	-70.1	152.3	433.1	-123.9
	6th	16.3	39.2	-37.7	-100.2	-3.7	-34.8	37.5	110	45.7	51.7	112.2	-165.9
	7th	-31.6	-13.2	-43.6	-5	1.6	28.1	-29.5	-24	-30.3	-31.3	-52.6	-46.5
8th	-15.6	12.7	-9.2	47.2	19.1	18.6	-8.3	33.7	-5.5	35.6	-5.8	41.3	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb		
	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 3, r/R=0.450	Blade 3, r/R=0.400	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.144	Blade 4, r/R=0.400	Blade 4, r/R=0.400	Blade 1	Blade 1	
40/43													
MEAN	-612.3	-650	0	-3706.4	-711.6	0							
RMS	2435.2	570.8	0	4213.5	515.8	0							
1/2 P-P	4494	846.8	0	7558.5	783.3	0							
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	1st	2696	-622	-287.8	653.7	0	0	-394.9	5341.1	-589.6	-288.4	0	0
	2nd	334.5	160.3	58.2	344.9	0	0	-1801.8	-1797.7	-21.1	-294.4	0	0
	3rd	-251.4	14.1	8.1	2.2	0	0	67.9	-144.9	-21.8	2	0	0
	4th	-1358.4	1064.8	-23.8	115.9	0	0	-34	65.2	-25.1	91.7	0	0
	5th	660.1	-335.8	30.4	36.1	0	0	-164.6	-233.9	-30.1	34.5	0	0
	6th	128.3	-262	27.1	-20.8	0	0	-0.8	-91.3	-26.2	18.7	0	0
	7th	-36.9	-44.5	-16.7	-8	0	0	3	-37.2	-10.3	15.6	0	0
8th	-7.1	6.8	5	14.3	0	0	-3.5	43.9	3.4	12.8	0	0	

Appendix G—Flight Correlation Dynamic Data

The forward flight dynamic structural loads for simulated flight condition trim are presented in the following tables. For each of the measurements, the time-averaged mean, root-mean-square value, the one-half peak-to-peak value (absolute maximum minus the absolute minimum divided by 2), and the first eight harmonics expressed in terms of

Cosine and *Sine* components are presented. Data are organized and presented in the same run and point order as in Appendix D. Measurements with zero values indicate that the instrumentation for that particular channel was not functioning properly during that run, or was considered unreliable for that particular data point. Definition of the measurements in the following tables is presented below.

Measurement Descriptions

Measurement Type	Blade No.	Location, r/R	Units	Positive Sign Convention
Flap Bending	1	0.144	in.-lb	tip up
Flap Bending	1	0.167	in.-lb	tip up
Flap Bending	1	0.215	in.-lb	tip up
Flap Bending	1	0.280	in.-lb	tip up
Flap Bending	1	0.325	in.-lb	tip up
Flap Bending	1	0.570	in.-lb	tip up
Flap Bending	1	0.725	in.-lb	tip up
Flap Bending	1	0.800	in.-lb	tip up
Flap Bending	1	0.900	in.-lb	tip up
Chord Bending	1	0.144	in.-lb	leading edge tension
Chord Bending	1	0.570	in.-lb	leading edge tension
Torsional Moment	1	0.400	in.-lb	pitch up
Flap Bending	2	0.144	in.-lb	tip up
Chord Bending	2	0.144	in.-lb	leading edge tension
Flap Bending	3	0.144	in.-lb	tip up
Chord Bending	3	0.144	in.-lb	leading edge tension
Chord Bending	3	0.174	in.-lb	leading edge tension
Chord Bending	3	0.325	in.-lb	leading edge tension
Chord Bending	3	0.450	in.-lb	leading edge tension
Torsional Moment	3	0.400	in.-lb	pitch up
Flap Bending	4	0.144	in.-lb	tip up
Chord Bending	4	0.144	in.-lb	leading edge tension
Torsional Moment	4	0.400	in.-lb	pitch up
Pitch Link	1	—	lb	tension

RUN/POINT 43/ 5	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-272.3	421.1	-322	230	-154.1	36.8	0	0	-117	-106	-172.3	-228.3
RMS	576.1	71.1	76.8	43.3	-4.6	11.3	0	0	-89.5	-3.6	-225.8	-31.2
1/2 P-P	1155.1	-187.9	211.5	-96	-3.6	-13.2	0	0	-212.4	91.9	-450.7	159.9
HARMONIC												
1st	-486.9	5.4	82.4	1	5.2	-15	0	0	-93.4	-20	-86.8	-9.5
2nd	-80.7	-9.1	-31.9	-3.1	29.2	9.4	0	0	102.8	27.4	2.8	-1
3rd	44.9	-25	13.2	-6.2	-31.6	14.2	0	0	-74.4	41.7	48.8	-12.6
4th	36.2	-7.7	7.3	-8.3	-32.7	-14.9	0	0	-69.8	-12.6	69.5	27.3
5th	-24.5	-58.6	-12.9	-2.2	2.6	80.1	0	0	21.8	122.3	19.7	-151.4
6th												
7th												
8th												
RUN/POINT 43/ 5	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-276.8	-251.3	-151	-203.4	-597.6	-58.2	-1662.7	-82.8	-178.7	134	-435.6	-53.2
RMS	525.7	9.4	-424.2	23.6	478.8	22.2	47.1	-54.6	279.1	-134.9	69.7	-11.2
1/2 P-P	1068.8	224.1	-413.9	232.7	1211.4	179.3	137	59.8	-322.2	-223	156	-3.3
HARMONIC												
1st	-201.1	-251.3	-151	-203.4	-597.6	-58.2	-1662.7	-82.8	-178.7	134	-435.6	-53.2
2nd	-362.5	9.4	-424.2	23.6	478.8	22.2	47.1	-54.6	279.1	-134.9	69.7	-11.2
3rd	-439	224.1	-413.9	232.7	1211.4	179.3	137	59.8	-322.2	-223	156	-3.3
4th	87.5	21.4	159.9	25.2	135.3	22.6	-181.2	80.3	1960.1	-986.2	6.7	-8.6
5th	-136.4	-80.6	-112.1	-105.4	13	-82.4	181.4	25.8	-412	-126.3	-6	2
6th	124.4	-54.4	85.6	-44.7	71.4	-9.4	8.9	15.9	-48.1	-32	6.9	-10.2
7th	18.3	-14	-86.1	-8	-171.3	7.6	19.3	9	-18.6	-6.2	4.5	-7.6
8th	-16.7	56.6	3.9	204.5	-50.2	215.6	-319.2	-157.3	334.9	138.2	2.8	12.9

RUN/POINT 43/ 5	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-348.6	-5188.9	-266.9	-5621.7	-2404.8	-747.4						
RMS	479.8	1338.6	493.3	1449.8	1227.1	1200.5						
1/2 P-P	1034.5	2253.1	1041.7	2411.4	2224.8	2429.5						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-368.1	-249.7	236.7	-1801.4	281.2	-388.3	1979.1	220.1	1657.4	189.3	860.4	40.6
2nd	-115.9	-67.7	-23.6	57.8	109.8	69.3	89.1	-40.9	109.8	-37.2	258.5	-99
3rd	-225.6	-387.1	42.9	-148.7	-392.1	208.4	-139.8	-41.1	-108.9	-1.1	83.2	155.4
4th	143.4	-4.9	-279.3	43.3	152.7	-3	25.2	39.6	241.5	-93.2	1191.5	-692.8
5th	13.1	-93.9	-32.7	179.4	86	-8.8	-182	4	-85.9	3.3	289.1	65
6th	-54.7	27.7	42.2	8.1	42.4	-24.7	-40.8	-9	-37.3	-9.3	-0.9	-24.9
7th	0	-35.9	43.2	-32.9	-38.6	3.8	10.4	-63.7	11.9	-52	-12.6	-22.2
8th	-45.4	-76.6	-324.2	-107.2	-35.8	-71.2	-359.2	-132.6	-306.1	-130.1	-155.2	-66.7
RUN/POINT 43/ 5	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1558	-422.1	0	-6960.6	-506.9	-73.9						
RMS	1457.6	72.7	0	1366.6	68.8	12.2						
1/2 P-P	2807.6	163.1	0	2269.5	155.2	21.5						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	462.8	-70.7	-38.7	68.3	0	0	-370.2	1839.9	-52.7	-44.7	-12.4	-11
2nd	297.1	-134.8	-30.9	-11.1	0	0	-22.9	36.1	34.6	12.8	2.4	-1.2
3rd	236.8	208.8	51	-3.2	0	0	-70.9	132.7	4.7	-49.7	1.5	0.8
4th	1554.6	-1068.7	-7.5	-0.4	0	0	-47.2	105.6	-5.4	-8.8	-0.4	-0.2
5th	467.2	51.5	-0.2	-3.5	0	0	21.5	-181	3.4	0.6	0	-0.1
6th	27.3	-15.9	3.1	-7.6	0	0	1.3	22.2	-2.1	8	0.1	0
7th	-7.9	35.1	-2.5	4.4	0	0	-9.5	-16	5	1.5	0.1	0
8th	150.8	67.5	2	14.5	0	0	-318.5	-150.7	2.6	16.4	-0.2	-0.2

RUN/POINT 43/ 6	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-350.5	121.6			335.8	0	414.4	33				
RMS	666.2	378.9			170.6	0	249.8	426.4				
1/2 P-P	1271.8	694.9			403.3	0	569.6	850.3				
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	807.9	161.2	469.4	78.4	183.2	-27.6	0	-26.1	-124.5	-114.3	-238.8
	2nd	83.8	24	43.4	15.4	-14.8	1.6	0	-85.8	-1.2	-214.1	-18.8
	3rd	376.3	-181.7	205.2	-94	-4.7	-15.8	0	-212.8	87.3	-445.8	144.6
	4th	117.7	17.1	61.5	4.9	-5	-17.5	0	-93.1	-32.1	-75.6	-14.1
	5th	-51.9	-54.3	-23.5	-20	5.8	25.3	0	46.9	85.7	11.8	1
	6th	45.8	-11.6	10.6	-1.6	-37.2	8.1	0	-83.9	23.1	56.6	5
	7th	24.7	5.1	6.6	-3.6	-18	-20.2	0	-40.6	-28.8	37.3	37.6
8th	-9.1	-56	-16.9	-0.2	-29.3	80.8	0	-20	121.9	73.4	-138.3	
RUN/POINT 43/ 6	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-285.2	-527.4			-588	-7344			-2558.4	-434.6		
RMS	510.5	543.7			473.5	3096.6			1625.3	68.9		
1/2 P-P	1042.4	1160.2			1133.4	4633.8			3476.3	156		
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-170	-258.5	-144.3	-206.9	-21.1	-54.7	-4344.2	-195.3	138.6	45.8	-49.5
	2nd	-350.7	12.5	-415.4	17	-334.3	5.7	-96.1	153.6	-106.7	-33.7	-8.7
	3rd	-420.5	211.2	-390	218.8	-335.5	163.9	164.9	39.8	-238	-54.2	-0.4
	4th	103.3	43.1	183.8	54.6	164	42.6	-143.3	31.3	-713.1	7.3	-0.1
	5th	-40.5	-178.1	-5.8	-213.9	86.4	-145.4	151.6	50.8	-321.8	-3.7	-2.8
	6th	121.5	-26	63	-23.1	31.5	1	-14.9	-32	30.8	6.2	-5.8
	7th	14.7	-10.1	-61.8	-33.1	-141.7	-38.4	11.2	35.5	-27.2	5.8	-3.5
8th	-42.1	55.9	-61.5	199	-100.3	197.9	-247	-275.5	263.5	-3.4	14.8	

RUN/POINT 43/ 6	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-421.2	-5060.6	-344.1	-5473.6	-2293	-690.9						
RMS	809.2	3082.3	808.9	3271.4	2704.9	1808.9						
1/2 P-P	1546.1	4762	1551.1	4770.3	3985	3406.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-81.3	1031.7	271.4	-4313.2	-1026.3	-131	4590.2	257.4	3781.3	271.7	2145.2	54.8
2nd	-69.2	-25.3	122.3	-202.1	64.3	28	-116.4	172.4	-73	137.2	112.8	16.1
3rd	-226.3	-382.6	16.6	-179.5	-396.6	194.8	-151.8	-25.2	-120.1	15	48.8	174
4th	118.5	29.6	-189.2	176.5	133.9	33.9	69.1	24.5	269.3	-93.3	1144.6	-648
5th	49.8	-60.7	-37.9	125.2	49.9	37.4	-141.6	-33	-66	-7.3	219.9	157.5
6th	-56.5	16.2	10.5	37.1	63.7	-16.5	-3.3	-0.4	-4	1.8	8.3	-8.4
7th	10.8	-26	-10.2	-25.1	-25.6	-5.5	-30.4	-6.3	-25.4	-9.4	-10.5	-23.8
8th	-35.4	-85.2	-286.5	-221.3	-9.6	-94.1	-314.5	-238.8	-263.8	-222.7	-130.4	-118
RUN/POINT 43/ 6	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1517.7	-422.6	0	-6825.8	0	-504	-77.5					
RMS	1618.5	73.8	0	3245.5	70.2	11.2						
1/2 P-P	3364.7	165.9	0	4857.4	152.3	21.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1291.4	-87.9	-53.7	61.9	0	0	-394.6	4544.4	-49.5	-56	-7	13.1
2nd	185.7	-54.4	-27.8	-5.9	0	0	165.6	-143.9	31.5	12.7	3.8	-1.2
3rd	204.2	236.5	49.9	-7.1	0	0	-30.2	157.4	5.2	-46.7	1.3	0.9
4th	1476.2	-1008.8	-0.5	5.5	0	0	-29.4	-44.2	3.3	-0.5	-0.2	-0.1
5th	369.9	196.3	-0.9	-0.4	0	0	37.4	-117.2	-0.2	2.9	0	0.1
6th	-3.3	-4.5	6.6	-5.6	0	0	39.1	20.9	-6.9	4.6	0.1	-0.2
7th	6.5	0	-4.2	0.9	0	0	-22.5	33.8	0	5.4	-0.2	-0.1
8th	134.7	108.3	-3.8	17.3	0	0	-266.3	-275.7	-3	19.5	0	0

RUN/POINT 43/7	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-296.9	219.8	-797.7	103.2	-354.9	-19.5	0	0	422.9	-124	0	0
RMS	979.8	52.7	88.1	32.3	-1	8.4	0	0	283	-0.7	0	0
1/2 P-P	1339.5	-188.4	209.2	-96.2	-3.1	-12.6	0	0	683.2	93.5	0	0
		-1.1	89.4	-2.2	7.4	-16.1	0	0		-448.2	0	0
		1.8	-24.3	1.2	28.9	4.7	0	0		-94.8	0	0
		-30.7	13.8	-10.3	-31.9	10.8	0	0		-3.1	0	0
		-12.5	14	-9.9	-30.6	-14.2	0	0		48.5	0	0
		-63.6	-11.6	-6.2	7.8	77	0	0		69.8	0	0
										12.9	0	0
										-155.5		
RUN/POINT 43/7	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-267	-255.7	-155.4	-206.4	23.7	-59.4	-7524.7	751.3	-2627.8	295.5	-436.6	-58.8
RMS	541.4	22.6	-439.1	35.7	-335.2	27.8	634.6	-55.8	1714.9	-144	72.4	-11.4
1/2 P-P	1112.5	236	-420.1	250	-357.6	197.6	1391	56.3	3240.8	-199.5	162.2	-2.5
		32.7	157.2	40.1	124.5	38.7		68.6		-987.9		-11.9
		-44.8	-81.3	-64.9	30.7	-58		10.5		-89.5		2.1
		-59.1	94.4	-55.7	89.1	-22.6		25		-42		-11.9
		-20.1	-82.6	-11.3	-165.6	9.1		35.3		-35.5		-9.5
		51.3	12.5	201.7	-45.7	222.1		-137.5		115.1		11.6
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-220.3	-255.7	-155.4	-206.4	23.7	-59.4	-7524.7	751.3	-2627.8	295.5	-436.6	-58.8
2nd	-382.7	22.6	-439.1	35.7	-335.2	27.8	634.6	-55.8	1714.9	-144	72.4	-11.4
3rd	-442.6	236	-420.1	250	-357.6	197.6	1391	56.3	3240.8	-199.5	162.2	-2.5
4th	85.6	32.7	157.2	40.1	124.5	38.7		68.6		-987.9		-11.9
5th	-115.9	-44.8	-81.3	-64.9	30.7	-58		10.5		-89.5		2.1
6th	126.7	-59.1	94.4	-55.7	89.1	-22.6		25		-42		-11.9
7th	24.1	-20.1	-82.6	-11.3	-165.6	9.1		35.3		-35.5		-9.5
8th	-12	51.3	12.5	201.7	-45.7	222.1		-137.5		115.1		11.6

RUN/POINT 43/ 7	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-367.1	-5215.7	-290.8	-5637.7	-2424.5	-794.7					
RMS	847.7		548.4		858.2		1074.6		547.7		1074.6	
	1200.8		1216.1		1176		2070.8		1275.3			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-191.2	-1061.9	-180.4	1084.1	-183.7	320.6	-593.8	327.3	-501.6	41.9	-374.3
2nd	-128.3		-52.4		131		65		204.4		211.1	
	-227.1		-393.4		-138.2		209.9		-132.6		-98.5	
3rd	153.5		-3.5		99.4		1.3		37		246.7	
	13.1		-81.3		174.2		-14		-158.1		8.6	
4th	-55.9		27.1		-16		-20.7		-49.1		-13.2	
	-10.7		-40.9		-35.6		9		11.7		-61.5	
5th	-40		-88.4		-107.4		-69.9		-302.1		-146.9	
6th												
7th												
8th												
RUN/POINT 43/ 7	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1597.9	-422.4	0	-7003	-509.1	-73.5					
RMS	1426.9		74.4		459.5		72		18.7			
	2820.8		163		1001		168.9		31.3			
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	-62.7	-319.1	-32	74.1	0	0	460.4	161.8	-41.7	-8.1	-24.8
2nd	326.7		-146.1		-10.7		0		-138.4		59.4	
	254.3		188.3		-2.9		0		-68.7		128.7	
3rd	1495.4		-1129.8		-2.2		0		-51		58.4	
	424.3		35.7		-1.5		0		23.3		-167.6	
4th	27.4		-10.3		-5.8		0		1		24.3	
	-0.5		32.3		-1.1		0		-15.6		5.6	
5th	126.1		82		0.3		0		-251.8		-148.1	
6th												
7th												
8th												

RUN/POINT 43/ 8	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-367.5	104.5	328.3	0	398.6	-23.5						
RMS	732.7	431.6	151.5	0	209.8	374.6						
1/2 P-P	1252.2	761.9	306.5	0	467.4	700.3						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-715.1	669.4	-446.9	367.5	62.4	0	0	-30.6	-173.1	16.4	-337.4
	2nd	186.8	-75.9	111.3	-40.1	-2	0	0	-87.3	36.7	-246.6	77.5
	3rd	214.3	-106	121.1	-57.9	3.1	0	0	-125.4	44.9	-259	125.9
	4th	72.3	5.4	41.5	0.7	6.3	0	0	-52.5	-13.9	-42.4	4
	5th	-12.9	-70.8	-3.2	-29.3	1.5	0	0	10.4	94.8	10.7	-1.9
	6th	28.1	-22.4	11.5	-8.3	7.7	0	0	-52	31.1	33.8	5.2
	7th	3.9	-7.9	4.6	-3	4.7	0	0	-7.1	7.6	10.7	-4.4
	8th	7.5	-53.5	-4.5	-10.6	50.9	0	0	-32.1	95.7	72.9	-98.5
RUN/POINT 43/ 8	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-383.1	-654.7	-652.2	-7828.2	-2592.7	-443.2						
RMS	448.7	462.9	357.7	733.1	887.2	112.8						
1/2 P-P	899.9	963.3	866.2	1438.4	1886.6	203.8						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	18.3	-338.5	58.2	-254.6	-79	-795	-590.4	-247.9	123.4	79.1	-124.6
	2nd	-334.9	104.1	-363.2	82.7	44.2	-10.6	13	233.4	-152.6	-45.9	10
	3rd	-234	213.4	-213.8	241.3	183.4	110.2	3.7	-198.7	-95.3	-31	9.4
	4th	29.8	41.2	78.3	49.8	66.4	-69.6	35	779.3	-771.5	-2.5	-9.2
	5th	24.5	-194.9	10.8	-245.1	-184.4	88	95.1	-196	-257	-1.4	-4.4
	6th	65	-59.9	46.4	-53.6	-40.1	-5.4	-11.5	-6.3	7.1	3.6	-3.6
	7th	-9	-8.7	-22.5	-2.9	27.3	25.5	6.1	-28.1	-3.6	0.7	-2
	8th	-29	44.3	-84.9	152.9	160.7	-120.6	-162.6	135.6	157.1	-2.2	7.5

RUN/POINT 43/ 8	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-445.1	-5458.1	-369.2	-5889.6	-2641.3	-900.6						
RMS	557.3	1016.7	575.9	1113.2	946.5	783.5						
1/2 P-P	1075.4	1857.7	1096.4	2020.2	1649.4	1677.3						
HARMONIC	Flap Bending, in-lb Blade 2, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-588	-395.3	722.3	-1198	414.7	-616.5	1347.3	747	1157.6	601.9	727.3	212.4
2nd	-148.6	75.9	22	-40.3	149.8	-72.3	10.8	41.8	35.5	20.3	165.5	-69.1
3rd	-121.6	-234.3	-9.9	-102.8	-236.4	117.2	-103.1	9	-79.1	21.1	55.5	77.4
4th	70.9	7	-118.8	54.1	73.6	8.2	14.7	-7.9	105.4	-102.5	493	-539.3
5th	79.9	-31.4	-104.7	92.2	17.1	55.1	-103.2	-77.5	-47.5	-36.3	143.1	158.5
6th	-30.2	26.9	8.7	6.5	27.7	-19.6	-17	-8.7	-15.3	-1.9	3.6	2.3
7th	-9.6	-2.6	27.1	11.7	-7.9	7.8	32	8.2	24	5.6	-12.2	-15.4
8th	1.4	-78.3	-142.9	-145.7	7.3	-48.5	-149	-173.7	-118.2	-159	-55	-95.8
RUN/POINT 43/ 8	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1625.2	-430.9	0	-7275.7	-510.9	-73.6						
RMS	857.5	126.5	0	1000.3	118.1	5.5						
1/2 P-P	1814.4	222.8	0	1834.9	206.1	12.6						
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	480	-10.1	-84.5	147.9	0	0	-858.6	1081.3	-127.2	-92.4	-4.6	-4.6
2nd	211.1	-135.4	-39.4	11	0	0	46.7	-18	41.7	-3.6	2.3	-2.1
3rd	158.2	104.2	29.2	-10.8	0	0	-6.5	108.4	-4.3	-30.6	0.8	0.2
4th	617.5	-783.6	-10.7	-1.7	0	0	-7	34.2	-9.4	-8.9	-0.2	0.3
5th	250.3	235.6	-1.5	0	0	0	99	-100.6	-2.2	0.2	0	0
6th	1.9	8.5	0.7	-2.9	0	0	6.1	10.8	-1.4	2	0	-0.1
7th	-28.3	-13.4	1.2	1.6	0	0	27.1	5.3	0.1	-1.5	0.1	0.1
8th	66.8	67.5	-2.4	7	0	0	-118.8	-159.9	-2.7	9.5	0	0.1

RUN/POINT 43/9	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-349.8	116.1	331.2	0	398.9	-30.2						
RMS	788.7	468.2	226.2	0	232.4	370.7						
1/2 P-P	1341	788.2	459.2	0	512.7	742.2						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1061.8	165.4	637.3	70.4	292.8	-59.7	0	0	88.1	-197.2	90.3	-344.1
2nd	91.7	-148.4	54.8	-83.8	-6.2	-19.1	0	0	-86.5	36.2	-224.4	87.8
3rd	192.3	-78.1	107.8	-42.4	-0.1	-9.7	0	0	-117.9	37.5	-238.3	119.2
4th	57.6	7.5	31.9	1.3	0.2	-8.7	0	0	-56.5	-9.5	-33.8	3.8
5th	-22.7	-80.6	-8.9	-31	0.5	36.1	0	0	14.8	116.9	10	0.5
6th	30.2	-15.2	11	-4.2	-16.8	9.5	0	0	-52.6	29.4	30.7	1.5
7th	-0.6	-3.5	1.3	-1.2	3.3	4	0	0	-3.1	7.7	7.8	-10.4
8th	9	-55	-7.3	-7.3	-33.2	61.9	0	0	-41.5	109.1	92.3	-114.2
RUN/POINT 43/9	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-399.3	-667.3	-657.8	-7595	-2536.6	-446.9						
RMS	443.1	467.9	354.9	3374.4	1106.8	117.7						
1/2 P-P	949.9	1006.2	874.4	5077.2	2537.5	213.4						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	49.8	-344.1	55.3	-257.8	-24.2	-74.9	-4728.3	-360.6	-991.9	177.5	100.5	-118.7
2nd	-307.4	103.8	-340.6	70.8	-196.4	18.7	-106.6	372.1	204.7	-85.4	-45.4	15.5
3rd	-216.8	208.8	-199	248.9	-193.8	196.6	134.7	-49.7	-167.9	-138.5	-29.4	4.8
4th	44.1	15.8	94.5	14.2	91	42	-52.3	10.4	788.3	-695.3	0.6	-2.3
5th	15.8	-231.6	-3.1	-289.6	46	-218	99.5	66.4	-220.6	-266.6	-1.4	-3.4
6th	67.4	-51.8	42.5	-45.3	-20.9	-39.2	-9.4	-36.5	3.5	29.3	2.3	-2.2
7th	-18.9	-3.3	-21.6	9.5	-42.8	41.3	12.7	7.2	-14.8	2	-0.6	0.8
8th	-38.7	51.5	-92.9	176.3	-61.1	183.3	-167.2	-221.9	187.9	214.9	-4	9.5

RUN/POINT 43/9	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-429.8	-5244.4	-351.8	-5676	-2470.6	-826.4						
RMS	1014.8	3516.1	1013.2	3688.4	3051.3	1926.6						
1/2 P-P	1716.5	5274.5	1704.2	5442.6	4490.7	3397.2						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-28.8	1401.1	383	-4924.1	-1395.2	-101.7	5170.5	400.8	4269.8	395.2	2592	52.9
2nd	-57.8	125.2	92.9	-415	62.6	-134.9	-104.6	398.9	-76	318	86.4	109.9
3rd	-98.6	-212.4	-70.9	-142.6	-222.6	83.2	-129.2	51	-103.4	56.7	11.1	110
4th	58	14.8	-58.3	105.5	64.9	17.1	54.1	-13.2	133.1	-108.2	477.5	-579.2
5th	90.2	-33.7	-50.4	87.5	24.8	73.4	-104.5	-45.5	-48.8	-7.2	161.9	191
6th	-34.9	21.5	3.2	32.2	37.6	-20.7	2.8	-17.9	1.1	-7.6	6.9	7.2
7th	-7.6	0.3	-22.7	7.2	-2.4	8.3	-10.2	44.4	-13.7	31.6	-22.8	-11.8
8th	-2.1	-79.3	-192.7	-199.8	1.3	-62.8	-206.6	-209.9	-165.7	-195.6	-80.8	-116.3
RUN/POINT 43/9	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1575.8	-435.6	0	-7056.3	-512.9	-78.8						
RMS	1427.3	131.1	0	3619.5	121.9	20.1						
1/2 P-P	2942.9	232	0	5396.8	214.4	32.5						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1667.4	-131.8	-108.7	139.7	0	0	-531.4	5061.5	-120.5	-110.8	3.5	27.6
2nd	149	-3.4	-39.7	17.7	0	0	156.6	-379	40.7	-7.1	4.8	-2.8
3rd	116.1	140.8	28.3	-6	0	0	51.6	136.8	-2.9	-29.4	1	0.2
4th	572.5	-841.8	-5.2	2.9	0	0	3.3	-24.1	-2	-3.8	-0.1	0
5th	279	259.8	-1.9	-2.7	0	0	66.9	-94.6	0.4	1.8	0.1	-0.1
6th	-9.4	23.8	1.3	-1.4	0	0	12.4	15.4	-3	0.8	0.1	-0.2
7th	-10.3	-36	1	-1.4	0	0	16.3	22.6	-2.6	0.7	0	0.1
8th	88.1	79.7	-3.4	9.9	0	0	-171.5	-217.4	-3.7	12.1	-0.2	0.1

RUN/POINT 43/10	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-495.3	-1213.2	-5563.1	-421.6	-6002.6	-2739.1	-976					
RMS	909.9	79.7	402.3	918.5	377.7	318.7	583.8					
1/2 P-P	1249.6	-211.1	920	1265.8	818.6	726.7	1171.5					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-266.5	-1213.2	-286	384.3	1228.4	-266.4	-323	-298.8	-75.3	-321.5		
2nd	-170.8	79.7	-61.4	-9	175.7	-75.5	19.7	6.9	215.4	-82.2		
3rd	-109.1	-211.1	-21.6	-103.5	-208.6	107.7	23.2	29.4	63.4	67.7		
4th	79	9.4	-102.8	49.9	85.7	8.6	-12.9	-101.2	417.3	-513.2		
5th	69.4	-3.1	-102.3	58	-4.2	50.9	-85.9	-39.1	87.1	160.9		
6th	-27.1	27	6.7	-1.4	30.3	-18.8	-5.6	0.5	4.3	-4		
7th	-14.8	-1	22.5	19	-7.7	12.8	23.8	17.7	-8.9	-12.8		
8th	6.2	-76	-104	-144	13.9	-48.7	-170.6	-153.9	-35	-93.2		
RUN/POINT 43/10	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1667.2	-329.4	-429.5	0	-7455.2	-510.6	-73.8					
RMS	755.2	-139.4	128.9	0	631.4	120	13.6					
1/2 P-P	1495.1	83.7	221.2	0	2053.5	214.5	24					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-32	-329.4	-79.4	154.9	0	0	-670.1	-89.4	2.1	-18.5		
2nd	246.4	-139.4	-40	11.3	0	0	-140.9	-3.5	3	-2.1		
3rd	167.1	83.7	26.5	-8.1	0	0	26.8	-32	0.9	-0.1		
4th	506.5	-731.7	-11.1	-5.5	0	0	-10.7	-7.1	-0.1	0.3		
5th	155.8	251.7	-3.9	2.3	0	0	-1.2	-1.5	0	-0.1		
6th	-8.2	8.3	2.2	-1.7	0	0	-3.2	1.9	0	0		
7th	-19.2	-25.7	1.7	0	0	0	2.6	-2.8	0.1	0		
8th	55.2	66.3	-2.4	7.8	0	0	-2.9	9	0.1	-0.1		

RUN/POINT 43/11	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	MEAN	-406.9	-384.8	121.5	-4640.5	-347.1	-5028.6	-1950.8	-627.3			
	RMS	355.3	0.3	229.4	1856.1	380.8	2008.9	1699.1	1215.3			
	1/2 P-P	749.5	-57.9	-131.5	3070.6	776.9	3272.8	2728.2	2334			
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	-384.8	121.5	293.2	-2561.4	-118.6	-432.5	2767.6	371	2342.5	305.8	-75.9
	3rd	0.3	229.4	-64.9	-323.7	-6.1	-245.2	96.9	337.4	81.8	264.2	62.6
	4th	-57.9	-131.5	-72.8	-86.5	-111.7	62.2	-79.1	88.2	-54.8	76	52.3
	5th	40.5	16.6	-54.6	47.4	38.2	17.1	12.7	-15	63.4	-96.5	-487
	6th	55.9	-37.9	-75.1	84.7	51.8	28.7	-95.6	-65.9	-40.7	-31.5	147.6
	7th	-24.1	14.4	22.3	6.4	17.3	-17.7	-5.5	1.3	-6.8	3	-10.1
	8th	-2	1.9	18.5	-4.4	0.1	4.3	26	-18.2	19	-15.5	-21
		-18.8	-76.8	-246.1	-127.2	-20.1	-57	-269.4	-154	-226	-147	-79.6
RUN/POINT 43/11	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	MEAN	-1462.5	-456.5	0	0	-6427.3	-531.6	-83.1				
	RMS	1031.1	193.4	0	0	1735.7	180.2	11.1				
	1/2 P-P	2202	317.8	0	0	2810.5	299.8	20.4				
HARMONIC	1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
	2nd	1120.3	-265.8	-147.6	217.6	0	0	-538.6	2349.7	-190.6	-152.3	12.1
	3rd	153.4	-29.2	-46.5	53.3	0	0	-28.6	-279.9	56.6	-37.1	-4.5
	4th	114.5	46.9	18.2	5.3	0	0	74.5	108.3	12.8	-18.7	0.4
	5th	341.7	-689.5	-0.9	9.6	0	0	14.8	-0.8	1.3	7.4	0.1
	6th	270.6	220.4	0.5	-5.3	0	0	67.3	-78.5	1.4	-0.8	-0.1
	7th	7.7	-8.2	1.4	-2.5	0	0	2.2	1.3	-2.3	3.4	0.2
	8th	-26.9	1.1	-1.1	-0.2	0	0	18.7	-21.1	-1.4	2.1	0.1
		107.3	60.1	0.4	5	0	0	-238.9	-159.2	0.1	7.1	0

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
43/12												
MEAN	-351.3	-4488.6	-286.1	-4898	-1840.7	-577.7						
RMS	804.6	3357.6	825.9	3461.4	2887.5	1902.5						
1/2 P-P	1301.6	5240.6	1331.7	5326.7	4428.8	3348.1						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-237.9	1066.4	228.3	-4698.5	-1071.6	-321.9	4847	257.2	4041.8	245.6	2609.1	-130.9
2nd	105.2	250.9	-85.5	-531.2	-99	-281.3	43	514.1	26.6	409.9	88.3	155.3
3rd	-33.7	-113.3	-112.3	-65.6	-99.1	39.5	-68.9	76.4	-43.8	63	50.7	27.5
4th	28.5	19	12.5	56	38.7	18.9	32.1	-10.9	62.6	-94.2	187.3	-499
5th	38.7	-41.6	-34.4	66.2	50.7	17.9	-69.7	-27.7	-26.8	-9.7	152.3	95.4
6th	-14.3	12.7	22.6	8.4	13.6	-17.6	-7.9	7.4	-9.3	6.5	-1.8	-11.9
7th	0.5	3.8	25.1	10.1	2.1	6.1	20.2	11.7	12.9	9.3	-9.7	-12.8
8th	-24.4	-50.5	-253.1	-48.4	-22.5	-36.6	-282.8	-68.6	-243.9	-74	-123.2	-43
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
43/12												
MEAN	-1430.1	-461.7	0	-6306.6	-536.2	-86.1						
RMS	1414.5	199.3	0	3293.7	184.2	22.9						
1/2 P-P	2882.5	324.8	0	5131.6	303.5	35.6						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1784.1	-314.2	-162.6	215.1	0	0	-399.9	4600.8	-187.5	-164	10.1	29.7
2nd	110.4	35.7	-46.3	62.2	0	0	11.2	-482.3	57	-42.5	5.2	-5.3
3rd	104.8	17.3	16.7	10.2	0	0	108.3	88.5	14	-16.4	0.3	0.4
4th	205.4	-709.5	5.3	8.5	0	0	-12.3	-14.1	8.1	3.1	0	0
5th	234.9	129.1	-0.8	-5.8	0	0	21	-65.3	3.5	-0.1	0.3	-0.1
6th	-5.3	-12.5	1.2	-3.2	0	0	13.2	-11.4	-2.5	4.2	-0.1	0.1
7th	-29.7	-9.6	-2.8	0	0	0	25.8	4	-0.2	4.4	0.3	0.1
8th	109.8	24.6	2.7	5.2	0	0	-251.9	-81.9	2.5	7.9	-0.1	-0.1

RUN/POINT 43/13	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-361.2	475.8	-1095	231.1	-400.7	-36.3	0	0	0	-277.9	148.9	-500.7
RMS	1331.7	-226.7	62.3	-125.3	11.4	-10.2	0	0	-54.1	92.4	-224.3	186.6
1/2 P-P	1893.5	-54.9	48.2	-32.7	6.7	-17	0	0	-43.2	18.8	-115	116.3
		3.6	21.5	-2.6	6.9	-16	0	0	-19.2	-21.9	-38.8	15.7
		-31.6	13.2	-11.9	-3	9.6	0	0	-27.3	45.2	0.2	13.1
		-21.3	11.1	-7.5	0.2	7.1	0	0	-18.5	27.1	16.8	-5.3
		-14.7	0.4	-7	11.8	4.5	0	0	20.9	19.7	-11.7	-25.4
		-59.8	-9.6	-11.5	-20.5	59.1	0	0	-19.6	113.1	64.6	-132.3
RUN/POINT 43/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-442.8	-474.7	178.5	-362.4	26.3	-117.3	1401.4	591.5	-24.8	477.5	126.1	-195.2
RMS	522.2	173.6	-305.6	137.1	-140.4	65.5	178.6	16.5	234.3	-181.1	-54.2	44.6
1/2 P-P	991.8	269.4	-148.1	284.1	-130.5	206.4	94.9	-49.1	-133.6	26	-19.7	6.1
		54	61.4	99.9	21.5	105.9	-66	35.8	431.3	-753.3	-1.9	-1.2
		-112.6	100.3	-165.1	117.9	-105.7	15.6	62	-37.3	-188.3	5.7	-2.7
		-34.5	17.1	-61.9	7.8	-67.7	-4	-4.4	-4	-0.6	4.2	-2.9
		-18	14.6	34.9	-26.8	41.6	30	-7.9	-30.9	22.6	1.2	-0.8
		34.8	-28.1	182.4	-20.8	231.2	-213.4	-219.1	227.9	201.4	-1.9	4.9
RUN/POINT 43/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-442.8	-474.7	178.5	-362.4	26.3	-117.3	1401.4	591.5	-24.8	477.5	126.1	-195.2
RMS	522.2	173.6	-305.6	137.1	-140.4	65.5	178.6	16.5	234.3	-181.1	-54.2	44.6
1/2 P-P	991.8	269.4	-148.1	284.1	-130.5	206.4	94.9	-49.1	-133.6	26	-19.7	6.1
		54	61.4	99.9	21.5	105.9	-66	35.8	431.3	-753.3	-1.9	-1.2
		-112.6	100.3	-165.1	117.9	-105.7	15.6	62	-37.3	-188.3	5.7	-2.7
		-34.5	17.1	-61.9	7.8	-67.7	-4	-4.4	-4	-0.6	4.2	-2.9
		-18	14.6	34.9	-26.8	41.6	30	-7.9	-30.9	22.6	1.2	-0.8
		34.8	-28.1	182.4	-20.8	231.2	-213.4	-219.1	227.9	201.4	-1.9	4.9

RUN/POINT 43/13	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-427.3	-1366.9	-1384.4	-367.7	650.7	1407.7	-390.3	-369.9	-388.2	-361.4	-72.1	-464.3
RMS	1032.8	35.4	204.5	-185.8	-75.6	43.1	-219	94.5	188.2	63.1	221.7	-57.6
1/2 P-P	1494.3	-78.7	-120.2	-58.5	-87.2	-97.9	92.6	59.1	-60.8	46	64.8	8
HARMONIC		42.8	11.9	-18.9	35	47.3	11.8	-18.5	42.7	-106	158.3	-517.5
1st		57.8	16.9	-78	30.2	6	37.4	-80.3	-17.7	-36.2	63.3	146.8
2nd		-19.3	24	0.3	6	15.5	-25.6	-5.9	-3.1	-0.7	-1.5	-8.9
3rd		-13.9	12.6	20.1	3.4	10.2	14.7	11.4	22.4	9.2	-2.1	-11.6
4th		-14.5	-95.2	-235.8	-181.7	-15.2	-71	-220	-208.6	-205.4	-107.4	-120.9
5th												
6th												
7th												
8th												

RUN/POINT 43/13	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1578.8	-488.6	-134.4	228.4	0	0	271.9	-1010.5	-198.5	-143.8	9.5	-13.4
RMS	705.1	-114.8	-43.8	48.5	0	0	-113.8	-49.3	52.8	-35.8	4.1	-4.8
1/2 P-P	1474.1	-11.5	20.6	-6.9	0	0	52.9	101.1	-3.2	-20.9	0.6	0.3
HARMONIC		-722.2	-2.6	2	0	0	-9.8	-2.9	-3.1	-1.2	-0.1	0.2
1st		233.4	-3	1.1	0	0	65.2	-10.3	-1.1	-7.1	0.1	0
2nd		-0.1	1.8	-0.9	0	0	-1.7	-1	-3.4	2.1	0.1	0
3rd		-19.3	-1	-0.7	0	0	36.5	1.1	-1.4	0.1	-0.1	0.1
4th		82.5	-0.3	6.3	0	0	-217.3	-219.9	-1.7	8.6	0.1	0
5th												
6th												
7th												
8th												

RUN/POINT 43/14	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-134.6	256.9			379.6	0	0	430.9			27.2	
RMS	614.9	336.2			148.8	0	0	324.2			585.4	
1/2 P-P	1115.8	614.7			319.8	0	0	564.9			1008.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	325.9	521.3	201.9	257.3	177.2	-57.7	0	0	219.1	-347.2	380.1	-630.6
2nd	-242.6	-549.8	-128.5	-310.9	-46.9	-47.4	0	0	9.6	173.4	-109.1	308.5
3rd	-12.6	-73.5	-3.1	-44.6	2.3	-17.2	0	0	25.1	12.5	0.5	172.7
4th	11.6	-2.5	10.8	-2.5	7.2	-2.6	0	0	-4	-7.9	-31.5	0.1
5th	4.6	22.4	6.5	8.1	11.3	-10.2	0	0	6.8	-40.7	-32	10.9
6th	10	-17.2	6.3	-5.1	0.7	9	0	0	-9.6	21.9	-4.5	-5.7
7th	5.6	0.4	6.8	-0.2	7.7	-1.6	0	0	-2.9	-7.9	-10.3	12.6
8th	14.2	-27.3	-0.6	-7.1	-23.9	21.5	0	0	-42	41.8	55.6	-29.3
RUN/POINT 43/14	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-426.2	-684.2			-691.8	-5392.3			-2301.2		-503.6	
RMS	590	479.7			275.1	2789.6			1095.6		239.2	
1/2 P-P	1040.5	971.6			697.9	4623.8			2546.4		402.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	367.9	-608.8	207.8	-469.9	-64.9	-154.8	-3837.6	98.1	-1195.3	550	197.5	-238.1
2nd	-189.8	209.9	-181.9	136.5	-134.6	19.9	302.4	760	153.4	-9.7	-79.8	106.1
3rd	-15.5	294.3	-30.8	307.5	-9.4	213.6	56.4	-124.1	-51.9	82.8	-8.7	-16.3
4th	-18.8	53.4	-32	80.2	-51.4	82.5	4	54.4	-128.7	-546.2	8.5	22.4
5th	19.3	52.3	55.9	77.7	51	70.1	34.7	-16.9	-66.8	-1.1	4.5	0.9
6th	29	-32.8	57	-44.9	70.6	-30.7	-3.1	0.5	-5	-17.9	1.7	-2.2
7th	16.6	-8	6.3	-21	-3.5	-18.9	-27	-7.5	26.2	10.9	3.7	0.1
8th	-10.5	5	-58.6	62.4	-80.5	73.3	-119.4	-202.3	129.8	195.5	-0.7	3.2

RUN/POINT 43/14	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-277.1	908.9	-3113.7	-4900.7	-197.7	-3514	-648.9	28.8		
RMS	798.8	505.1	3540.8	-864.1	851.6	3561.2	2982.9	2003.5		
1/2 P-P	1353	-29.1	5589.2	-20.6	1448.7	5499.3	4578.3	3492.6		
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	-279.7	908.9	-157.3	-4900.7	-932.8	4937.5	-94.9	4143.6	-60.3	2741.7
2nd	309.5	505.1	-331.3	-864.1	-304.7	251.8	866.9	183.9	688.3	137.1
3rd	-80	-29.1	-153	-20.6	-10.7	-31.4	132.5	-9.8	100.2	66.8
4th	24.8	15	49.7	63.7	16.2	32.1	-11.7	1.2	-52.3	-125.4
5th	-18.4	-5.4	26.2	16.3	2.1	-27	82.7	-17	51	48.5
6th	-14.7	16.6	19.7	-2.2	9.3	-20.8	19.3	-19	11.4	-16.4
7th	4.4	-8	-8	0.1	-8.6	-17.8	-10.7	-17.2	-13.8	-18.4
8th	7	-40.5	-133.1	-180.4	-4.9	-135.9	-194.6	-107.3	-180.4	-55.6
RUN/POINT 43/14	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1158.8	-567	-499.9	-212.1	0	0	-4930.6	4479	-576.1	-98.2
RMS	1500.3	76.1	267.4	-62.5	0	0	3229.8	-771.4	244.5	27.4
1/2 P-P	2819.4	-75	439.6	14.2	0	0	5122.6	67.2	407.1	42.7
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
1st	1924.3	-567	-212.1	278.5	0	0	-67	4479	-240.7	15.9
2nd	104	76.1	-62.5	122.1	0	0	-222.7	-771.4	84.9	6.6
3rd	83.3	-75	14.2	23.5	0	0	137.5	67.2	24.4	0.1
4th	-222.4	-359.4	8.6	24.1	0	0	-2.4	24.6	5.6	0.1
5th	65.4	-128.8	-0.3	-2.1	0	0	-41.1	-44.5	0.6	-0.1
6th	-8.2	-38.3	2.2	0.2	0	0	13.1	3	-0.6	0
7th	-7.2	-3.8	-2.6	-0.4	0	0	-26.7	-17.6	-1	0
8th	53.5	72.7	-0.2	4.3	0	0	-129.2	-191.5	-1.5	-0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
43/15						
MEAN	-228	200.3	358.7	0	428.6	32.3
RMS	666.4	371.9	170.8	0	317.4	579.7
1/2 P-P	1169.3	636.4	334.3	0	544.4	971.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	509.4	569.2	313.2	289	0	-338.3
2nd	-187.8	-507.4	-96.5	-285.5	0	163.7
3rd	-6.4	-77.9	0.2	-45.4	0	22.1
4th	12.6	-4	12.6	-3.7	0	-5.4
5th	-15.8	18.2	-1.4	7.3	0	-26.9
6th	13.9	-8.9	7.6	-1.6	0	12.9
7th	5.7	-4.1	7	-1.4	0	1.3
8th	1.7	-23.4	-3.7	-5.1	0	-8.1
						35.1
						-35.6
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
43/15						
MEAN	-405	-660.5	-674.1	-5369.9	-2320.1	-500.6
RMS	575.2	458.9	257.5	2959.9	1082.8	236.1
1/2 P-P	962.9	952.5	720.1	4824.3	2245	395.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	353.2	-603.5	197	-466	-1232.5	523
2nd	-208.6	208.8	-193.3	138	139.3	-17.6
3rd	-41.2	262.8	-56.2	276.8	-77.2	69.1
4th	-28.9	47	-42.6	75.2	-26.2	-634.8
5th	-37.2	13.6	-17	23.2	-127.3	-26.3
6th	31.9	-26.8	54.8	-39.7	22.5	1.4
7th	13.5	-13.7	1.5	-25.3	-21.7	3.2
8th	-5.9	4.1	-30.9	60.6	150.2	2.9
						1.3
						2.6

RUN/POINT 43/15	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-364.8	-3118.2	-283.3	-3522.4	-655.8	17						
RMS	892.9	3714.6	936.1	3711	3099.7	2050						
1/2 P-P	1403.3	5728.8	1465.4	5832.2	4863	3343						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-321.4	1092.4	89.7	-5167.6	-1105.4	-438.1	5164	191.4	4318.4	178.6	2838.3	-275.5
2nd	250.6	466.3	-226.2	-842.6	-233.9	-515.9	139.6	835.8	97.5	662.2	96.4	249.9
3rd	-90.4	-40.2	-140	-29.3	-11.1	94.8	-39.4	130.2	-11.8	100.1	75.7	-10.6
4th	23	6.7	50.2	66.9	26.2	-8.4	25.9	0.3	9.1	-56.6	-58.5	-351.2
5th	-7.3	-21.6	6.3	34	22	-36.9	-51.5	62.6	-28.5	43.8	85.9	-21.4
6th	-13.7	10.4	14.1	-1.6	8.4	-12.4	-21.4	16	-18.9	8.5	-8.4	-22.6
7th	-0.5	-3.4	28.9	1.8	-4.5	7.6	27.5	-7	20.1	-8.3	-11.5	-24.6
8th	2.3	-42.8	-151.4	-109.8	-1	-31.4	-145.9	-129.8	-120.7	-121.2	-63.6	-65.9
RUN/POINT 43/15	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1168.5	-497.5	0	-4909.8	-571.4	-92.9						
RMS	1501.7	264.2	0	3393	241.2	29.1						
1/2 P-P	2656.5	432.6	0	5322.3	406.9	43.9						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	1981.9	-493.1	-208.6	278	0	0	-327	4714.8	-239.9	-207.8	15.2	36.9
2nd	84.8	73.6	-63.8	114.2	0	0	-120	-741.6	84.6	-83.8	6.5	-7.6
3rd	99.6	-54.6	12.7	23.1	0	0	128.8	71	24.6	-13.5	0.2	0.2
4th	-135.7	-465.4	5.4	26.8	0	0	-7.8	38.3	2.5	20.2	0.1	-0.3
5th	137.5	-63.8	0.8	-1.5	0	0	-25.2	-63.5	0.9	-1	0.2	-0.2
6th	-7.7	-33.1	2.4	-1.8	0	0	11	-9.3	-2.8	1.1	0.1	0
7th	-25.8	-9.4	-2.3	-0.2	0	0	18	0.5	-1	0.9	0.2	0.1
8th	55.7	46.6	0.8	4.2	0	0	-135.3	-131.7	-0.7	6	0	0.1

RUN/POINT	Flap Bending, in-lb Blade 1, r/R=0.725	Flap Bending, in-lb Blade 1, r/R=0.800	Flap Bending, in-lb Blade 1, r/R=0.900	Chord Bending, in-lb Blade 1, r/R=0.144	Chord Bending, in-lb Blade 1, r/R=0.570	Torsion, in-lb Blade 1, r/R=0.400
MEAN	-427.9	-675.4	-668.4	-6050.7	-2381.9	-497.1
RMS	590.9	484.4	275.2	977.7	678.4	230.5
1/2 P-P	998.1	922.4	727.6	1809.4	1635.5	380.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	351.6	-605.4	-152.1	545.1	-255.7	604.2
2nd	-257.8	229.9	71.9	465.4	253.8	-142.2
3rd	-17.1	255.9	197.9	68.3	-57.8	47.2
4th	-59	43	73.7	14.1	-76.8	-489
5th	-87.4	-22.6	19.3	69.1	-186.6	0
6th	26.3	-26.3	-20.5	-5.1	4.6	-3.3
7th	17.3	-10.3	-12.7	21.1	-19.9	1.8
8th	-7.6	9.8	-52	-163.7	174.5	0.6

RUN/POINT 43/16	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-437.5	-3727.5	-362.6	-4125.3	-1155.4	-189.4						
RMS	862.5	570.9	880.5	563.6	496.2	604.3						
1/2 P-P	1520.5	1262.1	1514.6	1251.7	1128.8	1552.1						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-373.4	-1060.3	-463.3	-62.6	1046.3	-440.5	139.6	-342.7	228.1	-337	395.5	-539
2nd	235	394.2	-478.6	-285.5	-225.6	-443.7	496.1	342.7	407.2	256.7	316.2	20.6
3rd	-48.6	-17.1	-130.8	-47.8	19.9	60.7	-53	135.2	-30.7	101.7	56.7	-10.8
4th	-5.4	10.9	47.9	46.3	-13.2	-9.9	39.8	-17.6	16.4	-64.2	-90.6	-297.9
5th	7.7	-55.3	-14.5	75	55.7	-24.8	-80.8	19.5	-36.1	13.4	159.4	11.2
6th	-19.6	6.6	9.2	-1.9	12.3	-7	-7	-2.5	-7.2	-2.7	10.2	-27.6
7th	-1.1	-11.4	22.9	-13.3	-12.7	4	25.4	-25.2	17.9	-21	-6.2	-19.1
8th	-3	-62.3	-183.9	-159.7	-3.3	-52	-191.3	-187.7	-154.4	-174.8	-85.6	-93.4
RUN/POINT 43/16	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1272.8	-493.8	0	-5555	-568	-87.3						
RMS	679.5	260.2	0	591.9	238.2	14.7						
1/2 P-P	1514.8	420.8	0	1299.7	388.2	25.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	430	-605.5	-185.1	294.7	0	0	206.4	-585	-254.3	-192.5	17.7	-5.1
2nd	252.1	-88.3	-47.5	103.7	0	0	-385.6	-207.1	68.3	-77.3	5.5	-7.5
3rd	83.3	-50.2	10.2	21.6	0	0	135	82.4	18.7	-13.7	0.3	0.6
4th	-165.7	-399.2	5.4	22.4	0	0	19.9	11.7	1.9	17.7	0.3	-0.1
5th	241	-8.7	3.1	-4	0	0	5.1	-82.5	3.5	1.8	0.3	0.1
6th	8	-21.5	-1	-0.9	0	0	-2.6	2.5	-1.1	1.9	0	0
7th	-18.1	12.8	-0.4	2	0	0	11.5	-20.6	2.2	0.7	-0.1	-0.1
8th	72	77.6	1.5	5.2	0	0	-156.6	-190.1	0.5	7.5	-0.2	0

RUN/POINT 43/17	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	0.2		353.9		414.9		0		473.8		116.8	
RMS	1379.1		799		320		0		388.1		712.1	
1/2 P-P	2340.2		1321.6		534.5		0		689.6		1173.1	
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	1147.9	1197.4	700.3	668	91.1	0	0	325.9	-343	564.8	-686.3
	2nd	-562.8	-841.2	-317.4	-479.6	-77.7	0	0	45.3	247.3	-11.1	419.9
	3rd	-12.5	-116.3	-0.3	-69.6	-18.3	0	0	30.5	22.7	75	201.5
	4th	-24.9	-6.4	-5.6	-0.5	13.9	0	0	28.8	15.2	-7.7	-1.7
	5th	-36	-2.9	-7.8	-0.6	5.4	0	0	57.1	13	-11.2	11.5
	6th	-0.5	-13.6	1.8	-0.9	17.3	0	0	3.2	28.1	-11	-19
	7th	8.7	-9.7	4.9	-2.4	9.8	0	0	-16.1	17.5	15.9	-8.8
	8th	12.4	3.2	3.5	-0.7	-5.9	0	0	-25.4	-7.6	23	21.2
RUN/POINT 43/17	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-302.4		-597.9		-662.8		-2284.5		-1911.8		-553	
RMS	671.3		532.5		312.3		4813.5		1541.8		315.7	
1/2 P-P	1168.3		1171.9		788.4		7613.7		3429.5		532.2	
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	420.4	-715.3	205.8	-578.1	-233.2	-6503.5	-1222.5	-1812.2	439.1	255.2	-302.1
	2nd	-83.9	286.2	-115.3	152.1	-147	400.3	1468.7	16.3	144.2	-85.5	180
	3rd	112	274.2	132.7	272.5	167	-10.8	-273.9	17.6	24.9	-29.6	-26.9
	4th	-89.1	24	-116.4	46	63.6	73	25.7	-978.9	-144.1	7.5	35.1
	5th	-112.2	-37.7	-137.4	-43.1	-18	48.5	10.9	-144.8	-58.8	-1.8	-4.7
	6th	12.6	-14.8	26.6	-12.8	-8.2	-5.1	14.8	35	-26.4	5.5	0.5
	7th	9.1	1.1	6.3	7.2	6.9	36	-7	-37.8	5.4	1.1	2.3
	8th	-1.1	-2	-33.6	-14.3	-13.7	-11.9	-34.4	14.1	30	-0.1	2.1

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
43/17												
MEAN	-128.5		-458.1		-44.5		-1075.7		1409.7		1033.1	
RMS	1593.9		5802.8		1728.2		5819.1		4836.4		3078	
1/2 P-P	2449		9127		2639.9		9035.9		7553.7		5129.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$		Blade 3, $r/R=0.325$	
1st	-869.2	1820.7	866	-7977.9	-1902.1	-1085.9	7963.2	1044.7	6624.7	904.1	4233.3	101.4
2nd	588.8	792.4	-416.2	-1599	-608.9	-883.6	431	1680.2	281.2	1357.5	122.5	617
3rd	-138.5	-13.9	-243.8	24.8	7	96.1	41.5	322.8	27.6	261	6.1	67
4th	-20.2	-5.1	155.1	34.6	-31.3	-31.4	37.4	13.9	-99.6	-8.6	-691.2	-109.5
5th	-5.8	-55.3	0.7	49.9	26.4	-21.6	-59.6	9.7	-29.9	3.6	101.9	10.1
6th	6.1	13.2	2.8	1.2	-6.9	-13.8	3.6	-4.1	5.9	-4.7	17.4	-37.3
7th	-3.7	-9	24.6	-28.2	-5.6	9.9	6	-7.5	4.4	-4.3	2.2	-6.4
8th	10.1	-8.8	-8.1	-28.4	8.4	-0.2	-21	-26.6	-15	-23.4	-14.3	-14.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
43/17												
MEAN	-581.3		-550.8		0		-2077.3		-623.8		-109.4	
RMS	2235.6		350.5		0		5419.3		317.5		46.5	
1/2 P-P	4092.5		586.2		0		8402.9		536.9		70.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	2933.2	-321.4	-269.8	347.8	0	0	-1254	7386.3	-303.5	-264.7	12.4	62.4
2nd	21.9	320.1	-71.6	204.9	0	0	-306.5	-1517.5	103.3	-158.4	12	-11.3
3rd	-23.8	9.7	26	41.1	0	0	274.7	16.5	40.8	-27.7	0.6	0
4th	-987.1	-66.2	18.7	43.1	0	0	22.9	25.7	7	30.1	0.4	0
5th	169.6	-11.4	-0.7	5.5	0	0	3.6	-49.1	-4.8	3.9	0.3	0.2
6th	7.3	-30.1	6.7	1.2	0	0	-3.3	0.3	-4.3	-0.8	0.1	-0.1
7th	3.1	7.3	-0.8	-2.6	0	0	14.7	-5.5	-2.5	-0.2	0.2	0
8th	8.8	13.8	0.7	1.4	0	0	-7.7	-28.2	-1.2	2.8	0	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-375.4		100		339.5		402.4		403		27.6	
RMS	368.7		206.2		138		242.9		273.2		458.1	
1/2 P-P	752.2		400.2		335.1		600.5		636.5		926.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	27.4	-143.9	-9	-109.8	-25.1	-103.2	-76.6	-126.3	-94.9	-137.2	-168.5	-246.8
2nd	107.2	15.2	57.5	11.7	-10.4	3.3	-64.6	3.8	-80	5	-221.5	-9.1
3rd	400.8	-201.2	220	-102.6	-1.9	-13.6	-166	57	-218.6	93.7	-463.6	166.6
4th	144.4	18.6	78	8.4	4.1	-15.1	-67.4	-27.4	-97.2	-26.1	-92.6	-14.1
5th	-85.2	-5.4	-35.2	-0.2	25	12.1	81.2	22.8	100.5	28.8	1.1	-2.1
6th	46	-23.2	12.1	-6.3	-36	10.4	-77.9	25	-82.5	33.7	59.1	-6.5
7th	31.6	-0.2	4.5	-3.3	-34.3	-11.5	-66.8	-17.8	-66.8	-13.6	70.3	28.3
8th	-2.1	-67.4	-7.8	-2.6	-21.4	89.1	-27.8	150.9	-15.8	140.8	75.2	-155.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-265		-518.5		-576		-7695.2		-2819.2		-441.5	
RMS	543.1		581.2		512.8		2208.4		1781.8		66.5	
1/2 P-P	1113.4		1314.2		1264.2		3509.2		3385.9		146	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-208.1	-265.8	-166.7	-213.3	-1.8	-50.6	-2960.9	881.3	-402.7	342.1	36.9	-44.4
2nd	-369.8	25.3	-440.8	33.3	-362.3	16.3	17.5	140.1	280.1	-116.5	-34.6	-6.8
3rd	-456.8	235.8	-446	244	-381.9	186.8	150.6	49.8	-332.6	-247.4	-58	-10.5
4th	107.4	41.8	196.6	54.2	162.1	42.9	-174.4	88.1	2103.5	-1048.8	9.7	-8.1
5th	-129.1	-74.8	-97.2	-95.7	39.5	-66.4	163.3	22.8	-379.4	-128.6	-7.1	4.2
6th	125.4	-43.1	78.1	-29.6	65.6	1	-17	-18.2	-12	16.6	6.1	-10.1
7th	15.6	-8.9	-90.4	-4.7	-189	3.1	-6.4	24.3	5.5	-25.6	5.5	-3
8th	-23.9	62.9	-54.7	223.7	-119.1	232.2	-201.6	-201.4	225.4	186.6	1.9	12.4

C-9

RUN/POINT 46/25	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-429.1	210.4	-5362.5	-2944.1	-293.8	174.8	-5587.7	-2478.1	-1160.6			
RMS	431.8	89.8	2175.1	15.4	417.8	25.2	2392.7	2000.2	1543.4			
1/2 P-P	959.1	-236.4	3346.1	-394.5	891.5	-164.6	3759.5	3255.9	3206.5			
		146.6		14.5		-164.4						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	210.4	249	-742.7	-2944.1	-231.6	174.8	3267.6	2729.6	1482.4	-586.3	1482.4	-450.1
2nd	-89.8	-21.7	15.4	-164.6	85	25.2	29.8	50.1	194.1	135.2	194.1	7.7
3rd	-236.4	-394.5	23.8	-164.4	-405.9	213.6	-151	-113.9	77.8	10.6	77.8	170.1
4th	146.6	14.5	-226.9	130.5	159.7	14.6	39.6	270.6	1268	-115.1	1268	-750.7
5th	9.9	-102.8	-46.7	161.7	91.8	-10.9	-154.2	-65.7	284.1	1.1	284.1	66.1
6th	-57.4	28.9	42.9	16.7	56.5	-24.7	-43.9	-36.1	-9.4	6.2	-9.4	-19.5
7th	1.4	-35.9	14.7	-7.6	-36	-0.1	-30.8	-21.4	-15.2	-38.5	-15.2	-17.2
8th	-18.7	-84.8	-208.3	-166.3	-19.4	-75.2	-231.4	-191.7	-92.2	-169.1	-92.2	-83.9
RUN/POINT 46/25	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.400$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1914.1	-390.4	-425.3	61.2	-195.1	-166.8	-7234.2	-506.9	-64.2			
RMS	1636.3	-65.8	70.5	-5.8	400.1	-18.1	2295.3	66.3	3.7			
1/2 P-P	3414.1	234.1	157.2	3.2	842.7	398.3	3580	148	9.9			
		-1163.2		3.7		15.1						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	843.3	-390.4	-42.5	61.2	-136	-166.8	688.8	-46.4	-2.6	-47	-2.6	-1.3
2nd	242.2	-65.8	-27.9	-5.8	-119.3	-18.1	30.2	31.1	2.9	10.2	2.9	-0.8
3rd	242.7	234.1	54.3	3.2	231.3	398.3	-56.5	12	1.1	-50.3	1.1	1
4th	1650	-1163.2	0.9	3.7	158.1	15.1	-73	3.8	-0.3	-4.5	-0.3	0.1
5th	442.6	64.5	3.4	-3.5	15.9	84.8	41.1	2.8	0	3.5	0	0.1
6th	17.8	-37.6	4.9	-9.9	-52.2	19.4	40.1	-2.1	-0.1	8.1	-0.1	-0.1
7th	7.9	25.2	-3.1	0.9	2.9	40	-42	1	-0.2	1.7	-0.2	-0.1
8th	103	84.7	-2	13.8	-29.1	-85.8	-208.5	-0.6	-0.1	15	-0.1	0

RUN/POINT 46/26	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-407.8	80.3			333.6		402.7		403.6		25.5	
RMS	1109.3	677.8			312.8		287.6		302.6		488.8	
1/2 P-P	1583.3	983.9			635.1		779.3		747.9		1005.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-1409.4	425.9	-882.9	228.2	-397.7	37.2	-217.6	-76.8	-193.4	-104.3	-236.1	-224.6
2nd	150.9	70.5	83.7	44.5	-1.7	14.7	-66.4	-0.8	-85.3	-1	-240	-27.3
3rd	420.8	-205.8	230.9	-104	-0.3	-11.9	-170.4	62.7	-226.9	98.6	-485.1	174.6
4th	165.5	1.5	92.3	-1.2	10	-18.8	-68.7	-26.3	-101	-21.9	-103.8	-7
5th	-65.3	0.2	-22.7	0.7	29.8	6.1	81.2	9.1	97.4	12.8	-4.7	0
6th	55.4	-25.5	17.3	-8.4	-37.2	7.7	-84.3	24.3	-89.5	33.5	63.4	-3.2
7th	47.4	-8.8	12.7	-8.1	-36.9	-15	-79.3	-19.5	-83.6	-11.9	87.8	34.3
8th	-12.4	-77.8	-8.9	-8.3	-11.9	89.9	-8	158.7	3.2	149.1	59.8	-170
RUN/POINT 46/26	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-254.7	-508.8			-575.5		-7794.1		-2785.3		-441.8	
RMS	560.3	591.3			539.6		531.6		1813.1		71.3	
1/2 P-P	1159.7	1347.4			1329.7		1203.5		4033.9		164	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th
1st	-245.9	-240.1	-180	-190.5	25.3	-44.9	465.7	309	386.4	275.1	16.6	-49.9
2nd	-379.6	14.5	-441.8	33.1	-348.7	34.3	196.1	-112.7	411.9	-27.1	-42.2	-12
3rd	-478.6	237	-465.4	241.3	-389.7	183.1	139.8	77.5	-340	-63.7	-65.7	-10.9
4th	101.7	38.3	188.1	44	145	29.8	-232	60.9	2173.1	-777.7	7.6	-4.4
5th	-116.4	-46.7	-73.5	-62.3	55.1	-48.2	140.3	24	-467.7	-18.6	-6.6	4.2
6th	134.5	-47.9	92.5	-37.8	83.9	-4.5	14	-1.1	-200.9	47.3	6.2	-13.8
7th	22.4	-17.8	-106.3	-13.7	-204.5	3.1	22.9	66.6	-183.9	-82.8	6.3	-7.5
8th	-18.7	58.1	-42	238	-110.7	254.8	-178.2	-203.1	84	100.4	1.8	12.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
46/26												
MEAN	-457.1		-5445.5		-325.5		-5695.7		-2564.3		-1224.4	
RMS	975.1		437.1		994.3		370.8		367.6		1100.8	
1/2 P-P	1482.8		1154.9		1498		863.1		872.2		2021.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-396.9	-1196.6	-87	293.7	1227.1	-403.9	-153.5	-119.1	-67.4	-124.4	-209.2	-134.8
2nd	-130.3	-67.1	-170.2	111.7	122.4	74.4	228.8	-104.8	233.4	-92.3	316.5	-119.1
3rd	-245	-418.8	54.1	-146.3	-422.1	235.4	-143	-72.5	-102.1	-21.9	105.1	137.9
4th	158.4	-2.7	-290.7	92.4	174.8	1.3	38.5	30	263.1	-102.2	1241.4	-721.8
5th	11	-91.2	-44.9	170.2	83.4	-2.7	-158.2	-16.2	-62.4	-7.1	285.5	80.9
6th	-67.4	28	33.9	-20.3	66.9	-17.7	-57.9	2.2	-42.1	-3.1	-4.1	-20.9
7th	-9.4	-44.1	61.1	4	-48.8	5.8	-8.8	-26.7	-6.8	-22.7	-6.2	-15.6
8th	-11.7	-108.5	-196.8	-183.1	4	-83	-211.9	-218.8	-173.6	-200.9	-88.2	-96.5
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/26												
MEAN	-1956.8		-424.6		-228.9		-7350.2		-507.8		-69.2	
RMS	1483.6		73.2		1056.1		387.6		70.7		22	
1/2 P-P	2822.7		162		1597.1		949.2		166.5		37.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-229.5	-161.4	-19.7	65.7	509.1	1284	-14.4	-328.1	-52.5	-30.1	-11.5	-28.6
2nd	333.1	-149.6	-35.4	-10.7	-170.9	-63.2	-144.2	113	38.2	13.6	3.2	-0.5
3rd	263.5	197.9	62.2	2.6	243.4	418.5	-88.6	125.8	13.7	-59.4	1.8	1
4th	1607.1	-1113.3	-6	2.4	182.9	6	-68.9	70.6	-2.2	-1.9	-0.3	-0.2
5th	455.5	86.3	4.9	-3.5	24.1	71.2	41.6	-177.2	3.2	4.2	0	-0.1
6th	25.1	-30.9	6.8	-7.5	-58	22.8	25.5	26.1	-4.1	10.1	-0.2	0.1
7th	4.1	9	-3.1	5.6	10.5	52.4	-34.9	28.6	5.8	1.9	0	0
8th	91.7	106.5	-2.1	12.9	-22.7	-77.2	-166.9	-205.3	-0.2	13.7	0.1	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb						
	Blade 1, r/R=0.725	Blade 1, r/R=0.800	Blade 1, r/R=0.900	Blade 1, r/R=0.144	Blade 1, r/R=0.570	Blade 1, r/R=0.400							
46/27	MEAN	-260.6	-510.9	-567	-7755.6	-2831.1	-439.7						
	RMS	549.1	587.5	525	1402.6	1753.9	66.8						
	1/2 P-P	1142.9	1308.9	1287.3	2299.8	3361.4	149.6						
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE					
	1st	-216.7	-240.9	-170	-192.3	5.5	-45.9	-1929.4	17	-212.9	157.7	28	-43.3
	2nd	-378.4	15.4	-444.7	27.9	-355.7	24.2	9.2	-2.8	276.9	-129.7	-37	-9.7
	3rd	-459.6	230	-449	234.1	-385.3	178.1	138.1	62.8	-331	-245.1	-60.8	-10.5
	4th	100.7	33.3	188.2	41.3	148.4	26.6	-186.9	88.4	2117.9	-999	10.9	-4.4
	5th	-168.4	-70.3	-139.3	-88.3	10.8	-65.9	191.7	39.6	-438.3	-157	-7.1	4.8
	6th	128.1	-49	83.1	-29.3	74.5	8.4	-9	-1.8	-28.1	-6.3	8	-11.9
	7th	21.4	-14.4	-92	-9.8	-187.9	7.9	3.7	8.5	-6.9	-5.7	5.3	-3.6
8th	-18.5	66.9	-46.4	245.1	-116.4	256.1	-205.9	-209.3	228.3	193.6	1	13.5	

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
46/27												
MEAN	-491.6	-5413.5	-352.9	-5649.6	-2526.4	-1192.6						
RMS	418.5	1456	430.8	1630.5	1371.3	1308.2						
1/2 P-P	876.6	2439.9	901.8	2505.5	2305.8	2560.3						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 2, $r/R=0.144$		Blade 2, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.144$		Blade 3, $r/R=0.174$	
1st	-239.2	-85.7	106	-1995	116.4	-275.8	2263.3	127.8	1886.3	120.3	981.8	-3
2nd	-125.7	-44.8	15.9	-10.5	117.1	44.7	35.5	19.5	67.8	7	211.4	-70.3
3rd	-238.1	-399.3	43.2	-153.7	-409.8	219.8	-136.1	-44.8	-107.9	0.5	91.9	170
4th	153.6	0.4	-275.2	66.9	160.9	1.6	19.2	45.7	262.5	-91.1	1319	-704.5
5th	5	-114.5	-34.9	192.1	105.3	-12.7	-187.7	-0.6	-86.1	0.4	315.6	72.2
6th	-59	29.6	37.5	12.1	51.1	-22.8	-36.6	8.5	-32.3	0.8	-8.6	-21.3
7th	-1.9	-40.2	34.4	-32	-41.7	4.2	-8.2	-72.4	-1.1	-57.5	-11.6	-19
8th	-18.1	-88	-223.5	-181.2	-19.2	-76.8	-231.3	-193.7	-193.8	-177.1	-104.1	-80.7
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
46/27												
MEAN	-1923	-423.2	-266.9	-7288.3	-505.5	-64.2						
RMS	1586.9	70	469	1531.3	65	9.5						
1/2 P-P	3030.3	162.2	986.6	2391	145.8	17.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 3, $r/R=0.450$		Blade 3, $r/R=0.400$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.144$		Blade 4, $r/R=0.400$		Blade 1	
1st	535.5	-94.3	-32.2	59.6	328.5	168.3	-229.2	2110.9	-45.5	-37.7	-10	-8
2nd	268.7	-115.6	-32.4	-9.1	-155.6	-40	20.9	-5.5	34	11.6	2.8	-0.2
3rd	245.8	232.6	58.2	3.6	239.7	405.8	-77.2	131.2	9.5	-53.1	1.4	0.9
4th	1736.1	-1107.1	-0.8	5.1	167.2	11.3	-62.8	108	0.8	-2.7	-0.1	-0.2
5th	511.3	68.4	2.1	-5	26.8	102.9	32	-207.8	3.4	3.6	-0.1	0
6th	15.6	-30.2	3.8	-9.8	-51.5	22.5	11.4	27.8	-3.5	9.4	0.1	0.1
7th	0	36.7	-3.9	2.3	4.7	42.7	-29.4	-20.2	1.6	2.7	0.1	0
8th	101.5	90.8	-0.6	14.2	-38.5	-91.3	-204.7	-190.5	0.6	16.5	0.1	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-344.7		115.3		347.2		402.2		393.4		-37.7	
RMS	267.4		157.7		125.2		202.8		228.8		402.6	
1/2 P-P	667.5		370.1		323.7		476.1		481.4		764.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	44.6	-73.8	16.1	-77.4	27.4	-121.6	18.3	-188	14.5	-211.7	32.6	-356.5
2nd	149.8	-133.9	89.1	-74.1	6.1	-14.7	-61.7	20.7	-85.6	32.7	-238.4	88.3
3rd	254.7	-127.1	143.9	-68.3	6.1	-14.7	-101.9	29.7	-139.6	53	-301.4	145.4
4th	73.4	14.2	41.3	5	5	-11.6	-33.6	-24.8	-52.2	-23.3	-44.9	7.1
5th	-2.1	-49.9	-2.4	-18.7	-9.7	21.6	-19.3	59.2	-17.1	72.2	15.9	5.2
6th	29.5	-21.1	12.2	-6.1	-12.2	10.9	-41.2	23.3	-50.5	29.9	37.4	-0.5
7th	0	-9.4	0.6	-1.8	-0.6	10.7	-2.1	16.9	-2.4	14.5	12.6	-17.7
8th	24.3	-49.4	-2.8	-5.8	-46.3	53.3	-76.6	95.5	-64.3	95	105.9	-87.7
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-380.8		-671.3		-660.9		-8014		-2804.9		-453.2	
RMS	468.5		483.9		384		2127.9		1211.3		110.9	
1/2 P-P	957.2		1031.2		975.9		3372.8		2614.2		204.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	0.2	-352.7	35.3	-265.4	0.5	-73.9	-2867.3	792.8	-605.1	412.1	90.4	-112.6
2nd	-326.8	116.9	-365.1	90.2	-214.4	32.7	-3.3	292.2	238.2	-101.7	-44.9	12.9
3rd	-283	239.2	-252.5	274.8	-233.7	213.4	125.2	-8.7	-219.5	-151.5	-32.4	7.5
4th	41.2	59.5	92	67.6	102	86.4	-89.5	56.7	974.2	-1065.2	-5	-12.7
5th	69	-155.3	66.6	-200.9	96.1	-162.3	70.2	102.9	-151.2	-271.2	1.8	-1.8
6th	68.6	-58.7	54.7	-53.2	-6.1	-41.9	-25.3	0.9	-1.3	-14.7	3.9	-5.4
7th	-10.2	-7.4	-27.4	4.9	-50.2	37.2	-14.6	-18.4	12.3	24.6	-0.7	-2.9
8th	-40.7	43.2	-125.7	153.6	-108.4	160.3	-96.1	-201.4	117.3	194.4	-3.1	7.2

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$
MEAN	-403	-5611.3	-278.1	-5852.9	-2703.2	-1269.9				
RMS	386.4	2256.4	373.4	2472	2075.9	1432.5				
1/2 P-P	857.5	3495.5	789.2	3844	3263.1	2679				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 2, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.144$	Blade 3, $r/R=0.174$	Blade 3, $r/R=0.325$
1st	174.2	366.3	-3092.6	-358.5	133.4	3406	-644.2	2863.1	-497.9	1725.8
2nd	-107.2	122.1	-318.6	108	-123.7	15.8	313.1	31.6	246.6	151
3rd	-136.8	-267	-119	-276.6	125.1	-113.7	32.7	-83.7	47.3	59.1
4th	70.3	20.1	118.2	75	18.6	34.7	-25.9	134.4	-145.4	547.5
5th	61.9	-3.4	55.2	-11.6	45	-67.8	-83.1	-31.1	-37.8	73.6
6th	-29.1	17.8	20.2	24.9	-14.7	-20.5	-19.1	-18.7	-10.4	-17
7th	-7.8	-0.4	-15.8	-5.7	10.3	-14.1	-17.4	-11.9	-17.8	-6.6
8th	11.9	-75.1	-182.6	7.5	-48.4	-114.9	-207.1	-85.8	-190.9	-29.2
										-101
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Pitch Link, lb
MEAN	-1957.8	-438.3	-167.8	-7520.5	-513.7	-64.8				
RMS	1249.3	125.8	320.8	2299.4	115.7	8.7				
1/2 P-P	2640.1	225.5	726.1	3540.7	201.6	16.6				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.450$	Blade 3, $r/R=0.400$	Blade 3, $r/R=0.400$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.144$	Blade 4, $r/R=0.400$	Pitch Link, lb
1st	1090.2	-466.1	-97.1	137.9	-238.8	556.8	3175.9	-115.4	-103.1	6.6
2nd	200.9	-53.1	-39.6	16.6	-147.7	32.3	-279.8	39.2	-5.3	3.4
3rd	176.8	156.6	31.3	-6.3	148.5	7.1	122.2	-0.4	-28.1	0.9
4th	668.3	-1019.8	-7.5	-4.3	82.9	17	2.6	-4.9	-11.2	0
5th	153.7	263.2	-3.6	0.3	-46	89.2	-62.3	-2.8	-3	-0.1
6th	-8.3	37.2	1.4	-0.9	-28.1	7.6	20.1	-0.6	1.7	-0.1
7th	-3.7	-2.3	1.9	2	8.6	-10.8	-17.8	-0.3	-1.6	0.1
8th	59.8	82.9	-4.9	6.6	5.5	-96.4	-198.1	-3.6	9.1	-0.2

RUN/POINT 46/23	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-367.7	98.1	334.9	386.4	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	
RMS	1150.9	700.1	288.8	205.1	217.4	217.4	217.4	205.1	217.4	217.4	376.7	376.7	
1/2 P-P	1580.9	999.5	498.3	485.9	506.5	506.5	506.5	485.9	506.5	506.5	700.1	700.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE		
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th	
46/23	-1545.5	410.3	-952.8	206.6	-388.2	-3.2	6.7	-8.7	-9.8	20.4	5.8	-0.9	-7.7
	141.2	-30.9	82.8	-14.2	2.1	6.7	-8.7	-9.8	20.4	5.8	-0.9	-7.7	
	224.8	-79	125.8	-41.2	1.6	5.9	5.9	13.5	4.4	-3.6	13.6	-48.5	
	82.1	13.4	46.2	5.7	-17.1	-1.7	-2.5	-7.7	-3.6	13.6	-48.5	-7.7	
	-18.2	-45.3	-5	-17.1	5.9	5.9	13.5	4.4	-3.6	13.6	-48.5	-7.7	
	32.4	-10.9	7.5	13.6	-48.5	-7.7	-3.6	13.6	-48.5	-7.7	-3.6	13.6	
	7.5	-4.6	13.6	-48.5	-7.7	-3.6	13.6	-48.5	-7.7	-3.6	13.6	-48.5	
	13.6	-48.5	-7.7	-3.6	13.6	-48.5	-7.7	-3.6	13.6	-48.5	-7.7	-3.6	
RUN/POINT 46/23	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400		
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	
MEAN	-383.1	-668.3	-654.9	-8295.5	-2824.8	-450.7	-450.7	-450.7	-450.7	-450.7	-450.7	-450.7	
RMS	441.6	453.5	363.9	669.9	964.4	104	104	104	104	104	104	104	
1/2 P-P	948.8	937.2	943.6	1366.6	1929.4	196.9	196.9	196.9	196.9	196.9	196.9	196.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE		
	1st	2nd	3rd	4th	5th	6th	7th	8th	1st	2nd	3rd	4th	
46/23	-21.2	-342.1	47.2	-254.8	44.1	-72.5	815.9	315.7	84.1	281.4	67	-119.5	
	-332.7	90.3	-375.2	75	-219.7	46.5	164.6	-61.6	261.1	-166.4	-38.4	2.5	
	-264.3	192.6	-241.4	220.7	-234	170.2	115.1	1.7	-202.4	-117.5	-29.8	3.9	
	32	45.6	80.2	58.3	83.7	70.2	-114.3	4.4	1040.3	-606.1	-0.7	-9.1	
	-3.4	-147	-16.5	-183.9	34.9	-136.4	88.6	70.2	-220.7	-226.7	-0.8	-3.5	
	63.7	-44.1	47.3	-45.5	-7.5	-34	-9.7	-7.2	-12.8	0.8	2.6	-5.5	
	-4.4	-4.2	-26.8	-12.6	-49.9	5.6	17.8	9.8	-18.8	1.1	-0.1	-0.2	
	-29.8	35.8	-87.2	141.6	-75.7	142.4	-95	-179.8	116.3	171	-4.3	7.4	

RUN/POINT 46/23	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-418.6	-1233.3	-5877.3	-75.8	-287.8	-6139.1	-2932.4	-1369.1				
RMS	935.1	35.3	395.3	-131	957	351.3	297	616.3				
1/2 P-P	1302.9	-241.1	921.5	-12	1317	822.8	737.6	1307.9				
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-353.8	-1233.3	-75.8	428.1	1265.9	-362.6	-298.9	-127	-166.1	-133.3	-106.6	-212.3
2nd	-116.9	35.3	-131	31.2	117.9	-30.6	186.9	-27.8	185.6	-30.8	261.7	-99.6
3rd	-95.8	-241.1	-12	-108.2	-241.7	91.9	-108.3	13.7	-82.4	23.7	52.5	89.6
4th	83	17.8	-123.3	36.6	89.9	19.4	22.3	-12.7	124.4	-92.5	552.1	-470.5
5th	55.9	-22.9	-88.9	84.2	20.1	31.7	-102.2	-55.8	-46.3	-27.9	151.2	126.2
6th	-32	19.4	3.5	10.7	33.9	-11.1	-13.8	-3.9	-12.1	-0.8	-5.4	-2.7
7th	-6	-6.4	37.6	13.4	-11.7	2.9	41.3	-0.8	32.1	-1.1	-1.3	-18.7
8th	5.8	-81.1	-115.3	-164.3	13.8	-52.8	-122.9	-198.1	-94.5	-181.2	-36.5	-89
RUN/POINT 46/23	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1996.6	-253.8	-436	-71	-177.7	145	-7806	-597.1	-514.1	-81.1	-0.8	-20
RMS	819.7	-148.7	119.2	-32.9	1057.3	6.1	481.7	51.8	110.7	2	2.9	-1.7
1/2 P-P	1676.8	121.9	219.6	27.2	1482.5	-3.3	1097.3	109.1	202.4	-30	1.1	0
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-65.9	-253.8	-71	145	467.6	1381.9	-16.3	-597.1	-122.8	-81.1	-0.8	-20
2nd	272.3	-148.7	-32.9	6.1	-158.8	34.2	-107.7	51.8	36.1	2	2.9	-1.7
3rd	152.6	121.9	27.2	-3.3	97.8	229.7	-1.8	109.1	2.9	-30	1.1	0
4th	707.7	-703.4	-4.5	-8.8	91.8	21.3	-34.3	24.1	-5	-12.8	-0.1	0.1
5th	268.3	185.3	-1.8	0.4	-37	44.6	78.3	-97.1	-0.9	1.7	0.1	-0.3
6th	-7.3	3.2	0.9	-2.7	-32.4	16.4	4.8	4.4	-2.8	3.1	0	0
7th	-34.7	-12.3	1	-0.6	6	9.5	26.5	-3.2	1.8	-0.5	0	0.1
8th	55.3	84	-4.4	9.7	4.1	-60.6	-93.1	-183.4	-4.6	10.5	-0.3	-0.1

RUN/POINT 46/24	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-453.7	384.7	45.9	196.7	315.2	-6	-34.6	-145.6	375.7	-182.1	15.2	-336.6
RMS	489.7	-69	285.5	-36.8	112.8	5.6	-59.4	19.5	215	27.7	-225.9	69.8
1/2 P-P	925.1	233.4	552.8	-105.8	230.8	3.8	-96.4	22.8	469.5	44	-275.1	124.6
HARMONIC		81	46.1	6.3	7.2	-8.1	-31.1	-20.7		-20.2	-46.2	0.9
	1st	-21.7	-73.6	-28.6	0.1	29.8	7.3	84.8	15.5	101.5	17.5	7.4
	2nd	30.3	-19.3	11.5	-5.4	8.3	-44.6	17.7	-54	25.7	40.4	4.8
	3rd	3.3	-2.7	4.2	-1.3	0.4	4.6	-1.4	3	-2.8	2.3	-2.3
	4th	17.7	-54	-2.8	-8.1	54.1	-59.9	100.4	-48.3	99.5	89.3	-98
	5th											
	6th											
	7th											
	8th											
RUN/POINT 46/24	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-380.2	-337.1	42.5	-256.2	-641.9	-75.7	-1401.7	-157.7	-2794.6	202.6	78.8	-114.2
RMS	451.4	95.1	470.9	368.3	359.1	37.7	11.2	78.6	1015.5	-130.3	-41.2	9.3
1/2 P-P	921.2	213	958.8	-230.7	873.8	186.8	102.7	1.8	2200.4	-128.4	-32.5	5.9
HARMONIC		42	62.5	49.6	72.2	64.5	-96.9	35		-781.6	3	-7.2
	1st	-0.5	-208.8	-9.5	38.3	-192.2	104.3	132.2	-234.7	-341.3	-4.6	-3.8
	2nd	-327.1	95.1	-368.3	76.2	-215.8	11.2	78.6	216	-130.3	-41.2	9.3
	3rd	-259.7	213	-230.7	243.7	-217.2	102.7	1.8	-196.6	-128.4	-32.5	5.9
	4th	21	42	62.5	49.6	72.2	64.5	35	959.3	-781.6	3	-7.2
	5th	7.2	-208.8	-9.5	38.3	-192.2	104.3	132.2	-234.7	-341.3	-4.6	-3.8
	6th	63.1	-51.8	39.1	-48.7	-23.5	-20.5	-12.9	4	6	4.9	-4.4
	7th	-12.7	-1.7	-23.3	-5.9	-42.3	15.7	-8	-16.2	14.3	-0.2	-1.7
	8th	-37	40.6	-100.2	158.9	-81.6	-108.5	-209.9	125.3	203.6	-3.9	7.6

RUN/POINT 46/24	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-511.3	-5692.7	-381.9	-5932.5	-2770.9	-1303						
RMS	332	1268	352.5	1435	1215.6	943.8						
1/2 P-P	737	2147.5	752.9	2257.5	1957.5	1969.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-286	-152.1	264.3	-1733.7	179.2	-328.6	1971.8	292.9	1666.8	242.5	1018.5	-1
2nd	-107.5	67.9	-7.4	-101.3	107.3	-72.2	60.3	121.3	76	87.2	195.5	-25.7
3rd	-120.2	-244.9	-13.9	-112.5	-250.8	111.8	-97.9	14.3	-79.8	29.2	49.4	96.6
4th	74.5	13.2	-127.5	33.4	77.6	10.4	30.5	0.7	128.3	-96.2	569.5	-522.8
5th	80.9	-31.9	-124.1	98	19.6	58.7	-118.6	-108.4	-55.7	-52.8	152.3	191.2
6th	-28.5	23.1	21.9	22	26.3	-17.6	-14.9	-9.5	-12.2	-5.3	3	8.7
7th	-1.1	-0.8	22.2	3.1	-6.9	0.7	38.9	0.7	30.9	0.2	-12.5	-18.2
8th	14.8	-93.3	-126.1	-190.3	14.2	-58.7	-126.4	-222.3	-94.4	-200.8	-42.5	-99.2
RUN/POINT 46/24	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1953	-434.9	-271.5	-7581.9	-510.4	-64						
RMS	973.7	121.1	422.5	1260.4	111.4	3.2						
1/2 P-P	2064.5	224.3	874.1	2039.1	202.8	8.8						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	653.2	-141.5	-84	139.5	389.5	287.8	-419.9	1696.1	-117.8	-90.6	-0.6	-0.9
2nd	227.8	-103.9	-36.1	12.1	-149.7	67.4	5.8	-94.3	37.6	-3.1	2.5	-1.9
3rd	152.8	131.8	31.6	-7.4	132	234.9	-8.5	103.1	-2.2	-30	0.9	0.2
4th	720.5	-790.6	-3.4	1	85	16.5	-15.3	57.9	-1.5	-7.7	-0.3	0
5th	280.1	302.8	0.4	-0.5	-59.5	57.7	119.8	-114	-1.8	2.4	0	-0.1
6th	5.6	13.3	1.4	-4	-28.3	19	5	12.1	-1.9	2.7	0	0.1
7th	-39	-11.7	0.2	1.5	1	3.9	31.9	-13.4	-0.9	-0.2	0	0.1
8th	55.7	91.3	-4.3	9.3	2.1	-77.7	-101.8	-204	-4.4	11.5	0.1	0.1

RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.144$	Flap Bending, in-lb Blade 1, $r/R=0.167$	Flap Bending, in-lb Blade 1, $r/R=0.215$	Flap Bending, in-lb Blade 1, $r/R=0.280$	Flap Bending, in-lb Blade 1, $r/R=0.325$	Flap Bending, in-lb Blade 1, $r/R=0.570$
46/19						
MEAN	-319	133.8	351.7	413.2	399.5	-30.5
RMS	303.8	196.6	175.2	242	269.1	479.6
1/2 P-P	608.9	400	369	522	571.4	882.9
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	166.6	-210.6	103.4	-173.7	119.2	-280.3
2nd	30	-302.8	26.9	-170.3	-29.8	66.7
3rd	97.6	-56	58.4	-34	10.2	-17.6
4th	36.7	6.7	23.2	0.1	7.6	-12.3
5th	-7.8	-13.4	0.3	-4.1	9.2	6
6th	15.9	-16.5	8.3	-6.8	-2.5	2.7
7th	-3.1	-4.1	2.6	-3.6	9.3	-1.5
8th	-0.8	-56.3	-10	-9.6	-25.9	56.8
RUN/POINT	Flap Bending, in-lb Blade 1, $r/R=0.725$	Flap Bending, in-lb Blade 1, $r/R=0.800$	Flap Bending, in-lb Blade 1, $r/R=0.900$	Chord Bending, in-lb Blade 1, $r/R=0.144$	Chord Bending, in-lb Blade 1, $r/R=0.570$	Torsion, in-lb Blade 1, $r/R=0.400$
46/19						
MEAN	-440.8	-713.8	-674.7	-7397.4	-2707.9	-475.8
RMS	523.8	470.9	305.4	2578.1	1133.9	174.6
1/2 P-P	955.6	976.3	886.6	4130.5	2569.6	289.2
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	231.4	-499.2	169	-373.1	-917.9	636.6
2nd	-332.3	174.3	-303	116.2	219.9	-86.8
3rd	-125.7	266	-161.1	288.2	-151.8	-20.7
4th	12.8	32	49	73.3	579.6	-843
5th	-6.4	-68.5	19.3	-116.5	-129.1	-155.7
6th	50.3	-25	14.3	-40.9	-2.7	0.8
7th	9.7	-17.4	5.6	15.3	9.5	5.5
8th	-35.5	32.3	-49.4	164.9	260.7	1.9
			205.7	-223.6	210.3	0.1

RUN/POINT 46/19	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-386.9	610.7	-5019.5	-3875.4	-282.2	306.4	-5216.6	-1081.6	-2174.9	-851.8	-999.5	-794.5
RMS	554.4	264.4	2888.6	-546.7	543.1	-290	3100	593.6	2597.5	475.3	1781.5	196
1/2 P-P	938	-142.6	4530.1	-71.5	917.8	74.4	4802.4	77.7	4087	71	3167.8	61.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	365.7	610.7	-3875.4	-616.4	306.4	4184.6	-1081.6	3519.3	-851.8	2261.7	-794.5
	2nd	26.2	264.4	-181.5	-546.7	-290	169.1	593.6	141.3	475.3	158.8	196
	3rd	-71.2	-142.6	-90.6	-71.5	74.4	-72.8	77.7	-49.2	71	55	61.5
	4th	40.9	18.4	5.9	96.4	14.7	42.9	-2.1	84.8	-109.8	256.7	-627.5
	5th	35.7	-3.7	-38	44.5	25.2	-39.8	-32.8	-10.5	-10.4	107.2	95.1
	6th	-21.6	11.9	35.1	-0.3	17.7	-16.8	4.7	-11.5	5.7	-0.9	-1.1
	7th	-1.8	4.1	-5.7	-6.1	0.8	-18.6	1.9	-17.1	-2.5	-1.8	-15.2
	8th	-7.4	-78.7	-250.7	-190.3	-18.9	-275.5	-205.2	-230.1	-199.3	-120.6	-97.4
RUN/POINT 46/19	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1795.9	-741.7	-465.4	-158.2	-149.1	-404.9	-6903.8	3815.3	-535	-161.1	-73.6	21.2
RMS	1411	54.3	198.3	-49.6	409.1	287.2	2827	-514.4	181.6	-39.9	21.7	-5.4
1/2 P-P	2847.7	44.8	320.1	15.3	717.1	93.4	4374.5	87.3	299.4	-16.9	36	0.4
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	1543.7	-741.7	-158.2	216.4	-249.4	1001.6	3815.3	-184.6	-161.1	20.9	21.2
	2nd	183.6	54.3	-49.6	61.9	-38.2	-108.5	-514.4	59.5	-39.9	4.4	-5.4
	3rd	120.9	44.8	15.3	8.2	70.3	78.2	87.3	14.6	-16.9	0.2	0.4
	4th	291.2	-901.3	4.9	6.8	45.1	-19.9	-6.1	4.5	4.4	0.1	0
	5th	167.1	144.2	0.3	-2.5	-3.3	29.6	-45.2	2	-2.8	0.2	0
	6th	14.2	-8.1	2.7	-2.5	-17.1	21.4	9.4	-3.3	3.3	-0.1	0.2
	7th	-1.4	-12.1	-2.1	-1	3.5	-17.3	-4.7	-1.1	1.4	0	-0.1
	8th	112.5	77.6	0.8	5.7	-24.9	-245.3	-219.9	1.1	8.3	0.2	0.1

RUN/POINT 46/20	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-424	65.2	320.6	393.6	385.2	-47						
RMS	1374.9	825.1	305.2	205.5	235.6	449.4						
1/2 P-P	1939.7	1171.8	524.4	512.4	543.8	854.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-1829.3	606.5	-1114.9	310.1	-416.3	-0.9	-83.6	-210.4	-18.3	-265.7	131.7	-494.9
2nd	104.8	-176.2	70.3	-95.6	13.5	-1.9	-34.2	65.9	-58.2	86.6	-234.1	173.1
3rd	102	-52.8	59.5	-31.7	5.8	-16.2	-35.9	3.7	-55.8	21.8	-137.6	114.4
4th	33.4	3.3	20.7	-2.9	6.8	-16.2	-7	-23.8	-18.7	-20.5	-42.3	17.9
5th	-4.1	-43	3.1	-16	8.1	16	12.5	49.9	11.9	67	5.6	9.5
6th	27	-21.7	13.2	-9.1	-6.3	3.2	-24.5	14.3	-30.5	24.3	25.7	-4
7th	-5.4	-9.6	0.4	-7.2	6.8	-2.8	13.7	4.6	14.9	8.7	-12.9	-9.9
8th	-10.4	-63.6	-10.1	-11.6	-14	63.3	-15.3	122.1	-4.7	122.3	54.5	-147.7
RUN/POINT 46/20	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-436.4	-702.1	-658.6	-7732.6	-2741.4	-465.9						
RMS	522.5	493.9	350.8	1182	816.7	163						
1/2 P-P	1043.1	1084.8	976.7	2191.7	1827.9	276.5						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	191.1	-471	168.4	-359.3	28.7	-116.1	1588.5	271.7	28.7	423.2	116.3	-185.3
2nd	-366.8	169.9	-329.9	134.9	-154.9	68.9	161.4	-50.1	248.1	-194.1	-54.7	39.9
3rd	-114.5	257.4	-151.3	276.2	-136.6	203.3	95.8	-45	-144.4	-3.5	-20.2	1.1
4th	6.2	45.6	52.5	87.2	18.4	93.5	-69.5	34.1	510.7	-743.1	-2.3	4.3
5th	-1	-144.6	20.4	-207.4	70.5	-138	58.6	66.9	-156.1	-221.7	0.2	-1.8
6th	66.1	-30.6	23	-47	0.3	-53.1	-4.9	-7.3	0.1	14.1	4.3	-5.1
7th	6.4	-23.3	10.1	16.7	-32.7	26.1	6.6	12.4	-8.3	1.9	0.2	-1.7
8th	-30.6	40.6	-13.6	189.4	-1	236.2	-263.2	-181.4	275	167.6	-0.4	5.2

RUN/POINT 46/20	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-472.2	-1397.2	-5322.6	-359.3	-5548.4	-2457.8	-1147.6					
RMS	1061.8	160.1	660.2	1094.1	669.2	504.6	555.1					
1/2 P-P	1529.2	-144.9	1456.2	1516.7	1433.8	1116.3	1160.9					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-478.4	-1397.2	-53.9	828.6	1434	-518.7	-820.2	-51.1	-566.3	-108	-193	-307.1
2nd	-49.8	160.1	-166.5	-16.6	53.9	-176.3	191.7	49.7	185.5	22.4	228.6	-84.1
3rd	-77.4	-144.9	-33.4	-85.9	-120.7	85.6	-86.8	54.4	-59.3	43.1	67.2	28.2
4th	42.8	10.8	-13.1	42.3	42.5	10.1	22.2	-16.1	60.1	-102.7	204	-520
5th	59.1	-7.4	-62.1	68.9	33.4	36.4	-87.7	-68	-35.4	-31.7	142.1	149.4
6th	-28.3	23.7	8.8	-5.1	25.4	-21.8	-11.1	-2.8	-7	-0.7	1.2	-3.1
7th	-8.9	5.9	10.1	22.8	2.9	6.5	17.8	16.7	10.5	10.2	7.2	-18.4
8th	-19.7	-88.7	-276.1	-154.3	-26.4	-59.9	-297.6	-183.6	-247.7	-179	-124.1	-94.7
RUN/POINT 46/20	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1863.3	-385.4	-453.9	-238.3	-7243.9	-524.6	-71.1					
RMS	703.3	-129.9	186	1245	930	171.8	12.2					
1/2 P-P	1470.5	17	307	1775.2	1848.5	284.6	23.4					
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-9.1	-124.1	-44.2	221.1	631.3	1620	-47	-1246.8	-191	-134.3	6.8	-14.4
2nd	240	-129.9	23.4	45.9	-119.3	185.9	-106.7	4.8	52.6	-31.7	4	-4.7
3rd	134.1	17	-0.4	-0.8	74.9	101	48.2	100.4	3.6	-20.2	0.4	0.1
4th	229.4	-733.5	0.8	6	43.7	5.1	-7.5	3.9	-0.3	0.8	0.1	0
5th	245	223.8	2.7	-1.1	-29.5	15.7	63.5	-70.4	-0.6	-2.1	-0.1	-0.1
6th	11.9	-8.7	-0.6	-2.9	-26.8	19.5	13.5	0	-4	4.3	-0.1	0.2
7th	-24.4	-22.9	1	1.9	7.7	-4	14.7	10.1	0.7	0.8	0	-0.1
8th	119.2	66.6		5.8	-29.2	-66.2	-259.8	-184.6	0.4	8.1	0.1	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-266.2		164.6		363.2		414.3		401.5		-35.2	
RMS	343.6		187		89.5		208		245.4		458.2	
1/2 P-P	627.9		362.1		236.4		479		531.7		846.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-260.6	276.9	-160.2	119.8	-7.5	-79.4	71.8	-238.5	89.8	-285.7	196.8	-515.7
2nd	12.5	-266.3	16.1	-150.4	-2.3	-22.7	-26.1	64.1	-42.2	88.7	-182.4	192.5
3rd	92.1	-49	54.8	-30.5	7.8	-18.2	-29.1	-1.6	-47	15.3	-129.7	101.4
4th	40.2	6.8	25.8	-0.1	8.3	-13.7	-9.1	-20.6	-22.1	-17.2	-38.9	16.5
5th	-2.5	-36	3.1	-13.5	6.2	13.1	7.6	39.6	6.1	53.8	2.5	8.5
6th	20	-15.7	10.7	-5.3	-1.7	5.2	-15.3	14.2	-21.2	22.5	19.4	-4.1
7th	-1.4	-6.5	4.2	-4.3	10.5	0.1	15.1	4.3	14	7.9	-14.3	-11.8
8th	-6.6	-53.3	-11.7	-8.6	-21.1	54.7	-25.6	103.8	-15.2	103.2	60.6	-119.8
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-450.5		-725		-682.6		-7439		-2699.1		-471.1	
RMS	514.3		472.4		315.7		1659.6		981.9		168.9	
1/2 P-P	1007.6		1020.9		896.4		2783		2349.8		281.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	218.2	-493.9	165.2	-376.1	-10.7	-117.9	-2251.2	377.2	-706.8	462.6	137.4	-179.3
2nd	-309.7	168	-283.6	119	-148.1	42.7	155.3	329.4	208.7	-107.5	-55.7	48.7
3rd	-132.9	252	-175	272.9	-149.9	197.6	95.2	-71.2	-126.2	-30.7	-13.8	-5.4
4th	19.1	31.7	58.8	72	21.1	84.1	-35.8	38.9	476	-830.5	-1.1	7.9
5th	1.3	-120.9	23.3	-176.6	62.7	-115	39.8	75.4	-110.5	-230.8	-0.5	0.7
6th	54.9	-30.1	18.1	-49.2	4.2	-54.3	-23.5	8.1	9	-23.7	5.1	-5.6
7th	11.2	-19.1	9.9	19.5	-31.4	25	0.5	-23.9	-6.9	27.7	2.6	-0.5
8th	-31.4	31.7	-28.7	157.1	-20.4	197.6	-296.7	-165.7	304.9	152	0.7	5.9

RUN/POINT 46/21	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-330.5	-5067.3	-221.8	-5262.6	-2225.9	-1054						
RMS	264.5	2058.8	275.5	2257.8	1913.7	1373.5						
1/2 P-P	563	3305.7	559.1	3557.4	3028.5	2592.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-120.8	177.3	-308.2	-2836.4	-176.6	-164.3	3121.2	-278.2	2646.2	-222.4	1751.5	-401
2nd	47.8	231.9	-167.4	-389.4	-54.7	-246.8	174.7	409.6	150.3	321.7	164.6	99
3rd	-57.8	-135.5	-80.3	-86.8	-116.9	63.4	-76.3	81.4	-53.3	74.9	53.1	63.8
4th	44	16.5	-32.3	67.5	44.5	13.6	16.1	-8.3	73.8	-109.2	294.8	-573.8
5th	57.1	-11.6	-73	58.4	26.3	31.4	-58.9	-70	-21.7	-30.1	104	144
6th	-17	12	32.4	9.7	12.2	-14.5	-11.6	-3	-11.4	-2.8	-4.3	7.7
7th	-2.1	3.8	12.3	-13.4	1.3	2.4	12.1	-19.4	7.7	-19.9	1.6	-17.1
8th	-23.8	-77.9	-295.3	-122.5	-30.4	-59.2	-326.1	-152.5	-276.8	-152.4	-142.6	-72.7
RUN/POINT 46/21	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1806.1	-460.3	-92.5	-6949.8	-529.9	-70.5						
RMS	1168.1	192.4	275.9	1936.3	176.6	13.7						
1/2 P-P	2349.6	316.8	588.4	3071.8	290.8	24.7						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1226	-481.2	-148.4	215.7	250.1	32.4	150.4	2681.7	-184.9	-152	12.4	13.3
2nd	179.7	-7.1	-41.8	55.4	-20.2	256.5	-103.9	-338.3	54.4	-37	4.1	-4.4
3rd	117.2	59	18.2	4.5	54.7	85.7	71.6	105.1	13	-16.9	0	0.7
4th	364.1	-820.3	5.5	4.9	41.6	7.7	-3.8	-4.1	4.1	2.7	-0.1	-0.1
5th	173.6	233.3	1.9	-3.9	-25.8	14.5	58.4	-50.4	0.5	-2.1	0.1	0.1
6th	3.2	7.1	1.4	-2.8	-18.3	16.4	0	5.7	-2.3	3.4	0.1	0
7th	-19.9	5.4	-2.1	0.5	4.6	-2.5	8.5	-27.1	-0.9	1.9	0.3	0
8th	131.8	62.4	0.7	5.5	-30.6	-67.9	-292.3	-166.7	1.3	8	0.1	0

RUN/POINT 46/16	Flap Bending, in-lb Blade 1, r/R=0.144		Flap Bending, in-lb Blade 1, r/R=0.167		Flap Bending, in-lb Blade 1, r/R=0.215		Flap Bending, in-lb Blade 1, r/R=0.280		Flap Bending, in-lb Blade 1, r/R=0.325		Flap Bending, in-lb Blade 1, r/R=0.570									
	MEAN	-271.8	171.2	357.6	425.4	416.5	13.5	RMS	575.7	346.6	233.7	320	648	1/2 P-P	1107.1	662.4	421.2	546.1	612.8	1103.5
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE								
	1st	365.2	-195.4	231.6	-174.2	197.1	-241.3	221.8	-353.2	242.3	-401.2	429.3	-699.4							
	2nd	-259.4	-633.3	-138.3	-359.2	-51.4	-58.2	2.2	136.7	13.4	192.5	-108	357.3							
	3rd	5.4	-71.1	8.5	-43.3	7.6	-19.8	19.6	-5.6	28	5	6.7	153.2							
	4th	-1.1	-6.2	6	-4.5	10.8	-1.5	12.8	-3.7	11.8	-4.1	-23	5.5							
	5th	27.9	41.7	15.6	15.1	5.5	-20.4	-8.5	-58	-18.4	-69.5	-35.8	11.3							
	6th	10.1	-14.6	6.4	-4.7	1.5	7.7	-7.4	18.7	-9.3	19.4	-4.9	-6.2							
	7th	6	-2.7	5.3	-1.6	2	-0.4	-4.7	-0.9	-9.8	-2.3	2.6	8.3							
8th	7.1	-21	-3.1	-5.3	-20.3	16.6	-35	34.1	-32.7	34.6	46.9	-23.2								
RUN/POINT 46/16	Flap Bending, in-lb Blade 1, r/R=0.725		Flap Bending, in-lb Blade 1, r/R=0.800		Flap Bending, in-lb Blade 1, r/R=0.900		Chord Bending, in-lb Blade 1, r/R=0.144		Chord Bending, in-lb Blade 1, r/R=0.570		Torsion, in-lb Blade 1, r/R=0.400									
	MEAN	-422.2	-693.4	-676.4	-5636.2	-2509.4	-512	RMS	632.7	506.2	283.3	3276.8	1217.5	253.9	1/2 P-P	1063.8	1001.5	763.3	5313.2	2516
HARMONIC	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE								
	1st	390	-671.5	218.8	-515.9	-69.4	-158.9	1871	-1241.9	943	214	-246.2								
	2nd	-174.1	256.5	-164.6	161.7	-130.6	16.9	950.7	174.3	-2.6	-77	121.3								
	3rd	0.5	261.3	-1.1	277.2	23.2	188.3	19.3	-37.8	106.1	-13.7	-26								
	4th	-50.1	63.5	-69.8	98.7	-74.9	103.6	36.8	-164.4	-563.4	5.5	27.2								
	5th	70.6	105.5	118.6	132.2	91.7	102.6	-20.4	29.4	76.8	5.4	2.4								
	6th	33	-26.6	66.1	-33.3	80.4	-22.4	3.1	0.9	-24.6	3.6	-1.7								
	7th	18	-10.1	0.7	-16.1	-7	-11.1	-10.4	14.9	21.2	2.5	0.6								
8th	-5.2	6.8	-52.1	46.8	-81.4	55.4	-134.3	145.9	128.5	-1.4	2.2									

RUN/POINT 46/16	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-385.2	990.2	-1795.3	-5120.6	-1013.2	309.8	5168.2	-1704.5	4347.5	-1375.1	2846.9	-1223.2
RMS	905	585	-498	-1021.7	-312	-640.4	422.8	1103.9	319.1	882.8	213.3	357
1/2 P-P	1660	-40.3	-125.5	20.5	-17.5	75.5	20.2	123	25.7	90.7	65.8	-41
		12.3	94.3	30.8	1.7	-4.9	44	-22.1	22	-58.6	-84.3	-263.4
		-45.3	35.8	-16.9	-28.6	-66.5	60.5	60	36.2	32.6	-32.3	-84.1
		-11.6	-2.8	-14	10.2	-9.8	-1.5	28.6	-7.4	19.5	-24	-17.7
		2.8	-20.6	-23.8	-10.5	0.2	-48.8	-9.9	-42.6	-12.7	-14.8	-18.7
		10.8	-139.1	-111.7	2.4	-21.6	-156.4	-119.9	-130	-117.9	-65.7	-53.9
RUN/POINT 46/16	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1442	-1118.4	-228.2	293.6	-269.4	-672.4	1722	4765.9	-249.7	-228	32.8	36.7
RMS	1653.3	126	-62.4	142.7	235.3	618.3	-395.8	-981.8	84.3	-105	6.6	-10
1/2 P-P	2816.1	-94.4	18.9	35.7	61	-24.3	115.9	28.3	34.5	-21.6	0.1	0.5
		-334.9	15.6	21.8	-5.8	-3.8	16.7	19.9	7.9	21.5	0.1	-0.3
		-139.7	-0.7	-0.2	59	-31.1	-60.7	4.2	0.7	-3.7	0	0
		-86.5	1.9	-0.1	-7.9	13.5	8.1	-2.8	-2.5	1.1	0.1	0.1
		-23.2	-2	-0.1	0.8	7.8	-14.7	-9.2	-0.2	0.6	-0.1	0.1
		13.5	-6.8	-0.1	2.6	-39.4	-132.4	-127.6	-1.9	4.6	0	-0.2
		61.3	-0.2	3.3								
		47.8										

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-94.4		274.5		399		433.3		419.1		20.6	
RMS	1419.4		837.4		277		247.4		306.5		605.4	
1/2 P-P	2188.6		1289.6		529.8		519.2		579.1		1129.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-1821.9	668.4	-1100.1	331.6	-373.9	-35.8	-1.7	-288.9	79.3	-360.9	307.4	-659.1
2nd	-104.9	-456.2	-47.5	-255.2	-20.3	-23.1	-3.5	132.8	-2.4	178.9	-181.5	306.4
3rd	-10.4	-153.9	-0.9	-87.9	-2.6	-18.2	10	31.4	18.8	55	-16.9	260.3
4th	12.9	2.3	9.7	-1.8	0.4	-6.5	-10.8	-15.6	-14.4	-17.7	-30	-7.9
5th	13.6	32.8	10.5	12.1	11.9	-14.6	8	-44.3	1.5	-54	-36.8	17.4
6th	30.3	-6.8	15.6	-3.2	-2.2	-0.7	-21.3	0.2	-26	-0.3	-0.4	11.7
7th	9.7	-2.8	8.6	-1.8	6	-1.8	0.2	-3.3	-6.3	-5.5	-4.3	13.3
8th	4.3	-42.9	-6.2	-11.9	-24.5	33.3	-37.7	68.4	-32.3	67.6	57.7	-60.5
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-427.6		-710.3		-700.9		-6412.2		-2601.1		-497.4	
RMS	615.3		519.3		332.3		1097.7		806.8		233.2	
1/2 P-P	1121.7		1132.4		1013.4		2064.4		1817.9		406.3	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	349.9	-600.9	219.2	-458.8	-22.4	-153	1353.3	510.6	-225.8	642.7	180.3	-246.8
2nd	-256.8	236	-220.2	178.5	-129.2	69.7	335.7	98	238.6	-165.8	-73.9	89.7
3rd	-35.1	341	-56.6	345.5	-32.3	246.4	82.8	-116.4	-125.2	113.6	-19.3	-4.9
4th	-3.9	89.8	-9	128.9	-33.5	116.3	5.9	19.8	-403.1	-561.2	-2.3	31
5th	43.4	56.3	91.6	89.8	85.2	80.1	11.6	-21.3	-60.4	30.1	7.7	0.5
6th	53.2	-17.7	80.5	-40.7	85	-24.4	1.2	-4.8	4.9	13	5.2	1.1
7th	14.6	-11.2	-0.2	-37.2	-9.9	-43.5	13.9	16.3	-20.5	-15.3	0.1	-1
8th	-9.2	6.5	-58	100.7	-84.4	110.3	-205.7	-178.8	220.7	171.5	-0.8	3.2

RUN/POINT 46/17	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-173.3	-4070.3	-65.6	-4206.8	-1310.7	-556.9						
RMS	983.1	512	1011.2	512.9	452.3	651.7						
1/2 P-P	1656.7	1235.7	1674	1285.2	1178.8	1649.7						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-448.8	-1210.8	-404.3	71.5	1181.2	-559.8	57.5	-249.4	166.9	-272.8	363.5	-542
2nd	149.9	433.6	-333.6	-269.3	-157	-506.5	371.9	360.3	310.4	262.3	270.5	-4.5
3rd	-190.4	-19.2	-105.2	-61.7	14.4	187.2	-76.9	124.2	-41.5	87.8	92.1	-55.5
4th	27.4	24.9	100.5	20.4	13.8	2.5	23.8	-32.8	-34.8	-81.9	-312	-333.3
5th	-38.2	2.6	28	8.1	-17.8	-61.5	5.3	45.9	5.2	22.9	27.3	-65.7
6th	-33.3	4.7	-3.4	-2	25.7	-5.7	-1.6	-8.5	-1.3	-5	-13.2	-6
7th	-2.1	-12.7	14	19.5	-18.5	6.3	21.8	18.7	13	11.7	1.2	-20.7
8th	13.1	-51.3	-221.3	-156	5.1	-37.4	-219.4	-175.8	-178	-168.6	-88.2	-82.2
RUN/POINT 46/17	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1603.2	-492.2	84	-5917.1	-559.7	-80.7						
RMS	786.3	265.1	1227.4	670.3	241.5	14.4						
1/2 P-P	1962	440.5	1946.5	1450.8	412.3	25.9						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	419.4	-639.4	-190.8	294.3	678.5	1507.1	124.8	-762.4	-250.9	-197.9	16.6	-5.5
2nd	231	-117	-58.3	111.4	83.4	474	-276.2	-204.6	78.3	-80.5	6.2	-7.7
3rd	135.6	-125.3	21.1	14.4	156.4	-57.3	113.1	101.1	16.5	-21.7	0.3	0.6
4th	-479.7	-417.2	5.6	27.2	10.6	4.7	-1.1	-3.6	-1.9	26.7	0.3	-0.1
5th	18.7	-108.2	-3.1	1.2	60.3	-12.9	-39.2	-25.5	-0.6	-4.5	0	0
6th	-6	2.2	2.3	2.1	-24.4	6.7	2.9	3	-3	-0.8	0	-0.1
7th	-13.1	-27	0.5	1.2	7.7	10.2	13.3	15.2	0.5	0.8	0.1	-0.1
8th	86.6	70.9	-0.5	4.5	-7.7	-50	-187.6	-176.8	-1.9	6.3	0.2	-0.1

RUN/POINT 46/18	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	-258.9		180.3		363.5		431.4		424.3		24.2	
RMS	555.5		305		151.4		268.1		318.4		587.8	
1/2 P-P	991.3		543.1		294.2		475.8		554.6		1013.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	327.1	421	203	199.5	178.1	-76.3	203	-278.5	221.9	-338.3	392.9	-619
2nd	-174.7	-538.4	-90.2	-304	-36.3	-46.3	-5.1	122.3	0.5	171	-128.2	308.3
3rd	-12.7	-82.4	-3.1	-50.3	2.6	-18.2	18.3	2.5	26.6	17.2	-10.1	195.2
4th	16.2	-3.5	13.7	-3.7	8.1	-3	-0.4	-5.1	-5.9	-5.1	-34	-1.5
5th	-19.8	8.3	-1.5	2.1	23.1	-3.9	40.5	-12.8	41.8	-18	-32.2	12
6th	12.2	-8.4	8.2	-2.5	3.2	3.7	-6.6	9.8	-9.8	10.2	-6.9	1
7th	-1	0.3	3.9	-0.6	9.5	-1.4	10.1	-2.3	4.3	-5.3	-14.4	9
8th	2.8	-24.7	-4.1	-4.8	-16.2	24.7	-27.1	47.6	-25.3	45.8	40.5	-38.7
RUN/POINT 46/18	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-393.9		-671.9		-673.5		-5506.7		-2496		-506	
RMS	583.5		474.9		272.9		2697.2		1064.8		237	
1/2 P-P	1024.7		1002.8		705.4		4421.6		2364.3		399	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	363.1	-588.1	204	-457.6	-67.7	-155.2	303.1	-1171.4	584.5	198.6	-233	
2nd	-198	220.8	-183.9	148	-128	30.2	724.2	121	-11.9	-83.8	101.9	
3rd	-37.8	314.7	-49.2	334.1	-20.3	240.5	-122	-97.8	93.2	-4.7	-19.4	
4th	-18.8	43.9	-27.8	72.6	-45.9	78.8	57.4	-64.3	-607.9	5.3	25.4	
5th	-45.4	7.8	-25	21.9	-4.5	29.3	-16	-113.4	-32.4	2.5	0.1	
6th	33.6	-26.7	65.6	-38.6	78.1	-22.7	3.2	6.5	-14.6	3.4	-1.7	
7th	13.8	-9.6	11.5	-25.4	4.8	-25.4	-8.6	30.9	13.9	1.5	-0.2	
8th	-7.9	8	-36.7	59.6	-54.2	62.4	-131.7	149.8	121.7	0.7	2.3	

RUN/POINT 46/18	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-371.9	-3265.2	-259.3	-3449.3	-681.6	-235.6						
RMS	783.2	3448.2	841.3	3531.4	2946.8	1968.3						
1/2 P-P	1344.7	5300.6	1423.4	5416.6	4469.8	3311						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-182.6	939.2	-316.9	-4779.2	-977.7	-304	4904.5	-202.6	843.1	122	665.7	95.7
2nd	232.4	491.5	-254.4	-815.2	-225.4	-548.5	170.1	843.1	122	665.7	95.7	254.3
3rd	-86.5	-25.6	-149.8	-23.4	0.3	81.7	-24.3	145.7	-6.5	110.6	66.8	-27.5
4th	26.9	10.5	53.5	56.2	25.4	-16.2	31.9	-11.2	8.7	-53.5	-95.9	-291.9
5th	-16	-24.1	25.1	39.9	18.3	-50.4	-44.9	90.7	-19.9	57.6	101.6	-47.7
6th	-15.2	8	16.5	0.5	13.3	-7.3	-15.5	12.4	-12.9	5	-16.5	-15.6
7th	3.2	-3	-17.7	-5.9	-3	-0.3	-22.7	-8.8	-20.1	-12.9	-0.1	-23.1
8th	3.4	-28	-137.8	-117	-6.5	-20.5	-135.2	-115.1	-110.2	-111.5	-53.3	-52.6
RUN/POINT 46/18	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1425.2	-501.5	-76.1	-5085.7	-567.9	-89.8						
RMS	1460.9	268.5	649.6	3141.8	242.5	28.8						
1/2 P-P	2632.2	442.3	1083.4	4858.9	401.6	45.8						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1897.1	-595.4	-212.3	279.5	372.8	-629	75.4	4364.5	-236.9	19.1	34.3	34.3
2nd	73.6	73.6	-69.2	120.7	146.3	522.7	-146.1	-742.7	90	-86.4	7.1	-8.1
3rd	74.6	-88.4	11	28.9	69.8	-36.6	146.9	60.4	30.4	-11.1	0.2	0.3
4th	-187	-372	6.3	23.8	18.7	-3.7	-4.7	30.9	1.8	18.9	0.2	-0.2
5th	148.2	-107.7	0.6	-1.8	45	26.7	-26.9	-77.8	0.6	-0.8	0.1	0
6th	-3.7	-24.5	3	-0.2	-13.3	9.1	13.3	-0.3	-2	0.6	0.2	0.1
7th	13.9	-19.4	-1.2	-0.1	-0.4	1	-27.7	-11.1	-0.4	1.5	-0.2	0.1
8th	58.5	44.9	0.2	2.3	-7.5	-35.9	-135.6	-122.8	0.1	4	-0.1	0.1

RUN/POINT 46/13	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-117.2	97.6	-142.9	-10	59.8	-215.8	205.1	-392.3	255.5	-448.1	572.9	-784.5
RMS	841.3	-908.5	-386.9	-521.8	-143.3	-75.6	4.8	209.5	53.4	286	-8.1	486.2
1/2 P-P	1567.6	-42.4	-18.5	-86.8	-3.3	-30.5	20.1	1.3	40.8	13.4	135.3	194.8
		-49.7	-17.9	-7.6	13.1	12.8	34.4	25.4	40.9	21.7	-9.4	5.7
HARMONIC		-0.9	6.2	-7.6	-11.6	15.8	5.5	26.6	4.5	24.1	-15.3	19
		5.9	6.2	-2.9	12.6	9.6	-17.5	22.5	-19.4	21.7	23.1	-18.6
		11.8	-14.3	-4.3	-1	-4.1	-0.8	-0.8	-10.3	-0.8	9.2	7.5
		12.1	2	1.8	3.8	-1	-4.1	-0.8	-10.3	-0.8	9.2	7.5
RUN/POINT 46/13	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-330.1	-785.8	242.5	-617.6	-99	-219.9	-2784.9	2569.8	-1111.1	1201.8	272.7	-331
RMS	732.8	346.1	-162.3	200.3	-202	5.2	1205.8	1155.8	211.6	18.6	-58.1	214.8
1/2 P-P	1243.3	237.4	216.8	227	192	122	-61.4	-156.5	22.7	138.9	-45.4	-29
		29	-119.9	51	-90.5	69.8	110.1	13.8	-1024.2	31.4	11.2	38.4
HARMONIC		10.1	-57.4	2.8	-56.7	6.8	-4.4	-63.7	-47.8	51.6	-5.3	-2.3
		-43.9	45	-20.4	43.3	-21.5	-11.8	9.2	40.4	-31.7	4.2	-1.5
		21.7	2.9	25.4	7.1	26.9	14.6	2.8	-16.1	4.5	0.4	3.4
		10.1	10.3	-15.6	-6.5	-28.7	23.4	47.5	-26.9	-51.1	-0.5	1.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
MEAN	-249		-291.3		-101.8		-1194.3		1218.3		819	
RMS	866.8		3845.8		945.8		3810.4		3203.7		2272.1	
1/2 P-P	1574.5		6557.3		1767.3		6702.6		5459.9		3913.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	168.8	449.2	-2563.7	-4442.8	-545.2	-7.2	4504.5	-2259.1	3838.9	-1870.6	2552.6	-1565
2nd	698.1	863.7	-1149.8	-1297.6	-719	-970.5	1209.3	1410.2	942.5	1127.2	514.5	434.7
3rd	-155.1	5.1	-132.7	99	24.7	121.4	106.8	146	84.6	105.1	-6.5	-86.8
4th	-34.7	-1.1	202.8	-9.2	-48.9	-26.8	87.2	-21.8	-70.5	30	-756	210
5th	-31.6	3.4	80.3	-37.7	-17.7	-54.7	21.9	134.6	6.8	83.9	17	-119.9
6th	-1.7	16.1	-20.3	-12.4	5.2	-14.3	-7.3	18.6	-5.9	6	-2.2	-38.3
7th	-7.1	-12.6	-13.3	-9.4	-16.4	15.3	-9.7	19.2	-11.7	12.5	-6.5	-3.5
8th	4	3.2	32	40.7	6.9	8.1	52.1	40	45.5	39.6	25.1	29.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
MEAN	-780.6		-565.3		48.3		-2101.8		-627.4		-118.9	
RMS	1895.2		389.8		804		3310.8		349.2		37.1	
1/2 P-P	3830.6		639.3		1312.5		5664.9		594.5		59.5	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1833.1	-1375.4	-289.1	385.3	36.2	-66.4	2444.1	3608.9	-332.1	-288.2	37	34.1
2nd	269.9	152.7	-43.3	249.4	646.8	908.5	-1127.3	-1228.4	78.2	-196.6	6.2	-13.5
3rd	-69.2	-139.2	49.2	50.3	120.8	-86.1	160.3	-30.9	43.8	-45.8	0.3	1.4
4th	-1063.8	395	21.8	43.4	-64.8	-19.2	58.2	1.4	12.8	33.8	0.3	-0.3
5th	12.7	-224.3	5.8	5.3	30.1	-5.7	-92	2.7	-4.3	10.3	0.1	-0.4
6th	15.5	-53.7	3.8	0.1	-4.2	12.4	20.7	-10.9	-3.9	1.3	-0.1	0.2
7th	1.2	-21.5	0.6	-2.7	11	6.5	19	32.3	-2.7	-0.6	0.1	0.1
8th	-10.4	-11.9	-1.2	0.2	2.5	3.1	27.8	50.4	-0.7	0.7	0	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
MEAN	-56.6	308.7			401.4	447.7			437.2	63.9
RMS	1725.9	1008			303.3	285.5			371.6	738.6
1/2 P-P	3028.4	1748.6			490.6	536.9			683.1	1214.5
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$	
1st	-2005.8	907.6	-1206	467	-400.3	24.5	-331.6	122.3	-409.1	492.8
2nd	-616.7	-831	-347.5	-475.1	-128.3	4.8	210.9	48.9	284.9	-37.6
3rd	-66.2	-133.8	-31.9	-82.1	-8.5	20.7	5.2	40.9	16.1	128.4
4th	-56.5	-11.9	-26.1	-4.7	4.7	23.3	22.8	28.7	20.3	-16.3
5th	-30.3	-37.8	-5.8	-20.3	21.6	42.7	23.7	47.8	31.4	-3.4
6th	1.8	-17.5	4.2	-4.3	6.1	6.1	23.9	4.2	22.4	-12.4
7th	12.6	-8.3	8.7	-1.2	-0.4	-9.2	18	-12.7	16.9	13.2
8th	7.1	1.2	9.4	1.4	9	3.8	-1	-3.7	0.3	3.8
										7.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
MEAN	-360.3	-645.7			-657.8	-3308.1			-2168.8	-547.9
RMS	727.2	579.4			299.5	1814.5			1054.7	328.5
1/2 P-P	1295.4	1182.9			737.2	3449.3			2473.6	558.8
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$	
1st	429.3	-769.6	254.3	-615.4	-54.9	2152.6	863	-211.8	822.3	-336.6
2nd	-128.7	384.8	-162.3	257.1	-179.4	946.4	343.9	164.9	-102.6	192.8
3rd	159.1	239.3	176.7	229.8	159.3	-25.4	-153.3	50.9	167.2	-4.6
4th	-80	30.9	-99.6	49.2	-77.7	102.8	5	-984.3	-29.3	42.7
5th	-116.6	-60.6	-144.1	-66.7	-114.5	41.6	43.3	-133.6	-164.9	-3.6
6th	11.2	-19.6	23.7	-25.2	29	3.6	19	13	-48.8	5.8
7th	14.5	7.3	12.6	21.7	12.3	36.8	12.1	-40.7	-10.1	-0.2
8th	8.8	1	-13	-8.2	-27.9	79	59.7	-88.6	-63.4	0.3

RUN/POINT 46/14	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-172.2	-1000.9	2.2	-1982.1	555.9	474.9						
RMS	1245.4	1011.2	1285.4	912	742.2	820.9						
1/2 P-P	2347.6	2178.2	2369.6	1844.4	1526.5	1941.2						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-664.9	-1254	237	-792.8	-177.6	-515	-27	-519.2	268.4	-723.9		
2nd	637	800.3	-567.7	-879.5	940.3	588.6	732.9	440.1	398.4	40.8		
3rd	-152.8	49.4	33	129.5	28	167.8	15.2	128.5	-62.7	-33.1		
4th	-35.6	4.2	-41.7	-6.6	45.9	-29.5	-76.4	-29.4	-616.5	-66.9		
5th	-0.7	-44.7	30.3	-22.5	-20.6	14.6	-6.8	2.9	61.9	-36.1		
6th	-3.4	12.3	2.3	-13.6	-20.9	6.5	-12.5	-4.5	-6.1	-44.8		
7th	-6.1	-12.4	-8.2	12.9	6.9	4.7	3.3	1.3	-9.9	-4		
8th	0.4	3	50.5	14.8	71.3	49.3	62.2	49.3	27.3	33.3		
RUN/POINT 46/14	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-977.6	-546.9	134.3	-2952	1245.3	333.6	-611.1	-108				
RMS	996.4	370.3	1519	2384.5	554.5	38.7						
1/2 P-P	2452.1	609.6	2677									
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	405.6	-785.7	-254.9	391.1	910.2	1654.8	533.3	-1335.7	-339.6	-260.2	24.7	-6.4
2nd	199.6	-70.4	-31.4	226.2	565.6	828.6	-840.7	-411.3	67.2	-177.5	7.7	-13.7
3rd	-114.5	-60.7	37.8	18.7	116.6	-107.5	191.8	-6.5	17.5	-40.9	1.5	1
4th	-878.6	-10.6	23.2	40.3	-59.6	-9.8	35.8	3.9	11.2	33.5	0.2	-0.3
5th	97.6	-65.4	1.2	-3	-5	33.5	23.9	-37.9	0.9	5.4	0.1	0.1
6th	-0.6	-56.6	5.6	1.3	-0.2	15.6	14.9	-17.4	-3.7	-1.7	-0.2	0.1
7th	-19.2	-20.1	1.9	-5.6	11.2	8.6	13.3	11	-2.8	-2.5	0	0
8th	-35.4	-15.1	-0.4	0.1	7.4	5.3	78.6	62.2	-0.3	0.5	-0.1	0

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-323	-624.3	-663.7	-2517.8	-2079.4	-562.1						
RMS	706.1	552.7	313.9	4419.3	1602.4	326.5						
1/2 P-P	1196.1	1156.1	757.8	8058	3760.6	567						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	444.1	-762.6	224.6	-613.5	-127.8	-245.1	-5917.9	-889.2	-1734.4	570.8	264.4	-310.9
3rd	-107.6	312.9	-152.4	171.4	-185.1	-10.1	554.2	1393.3	50.3	111.3	-76.3	190.6
4th	120.1	248.6	150.4	236.1	144.8	132.6	-25.1	-263.3	-6.7	71.9	-39.8	-24.6
5th	-90.9	54.7	-115.6	82.6	-92.3	91	85.6	50.8	-1032.5	-414.5	5.8	37.5
6th	-48.4	-56.1	-60	-77.1	-54	-50.9	30.7	32.6	-92.7	-139.3	-1.3	-8
7th	7.2	-13	23.4	-14.7	28.9	-12.9	7.8	21.1	-6.9	-40.1	5.7	-0.9
8th	6.4	2	3.5	25.4	8.2	27.4	-7.4	-19.3	-14.5	23.8	0.3	2.3
	3.1	8.1	-17	14.5	-25.2	17.3	-48.5	11.4	31	-19.1	1.3	1.8

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
46/15												
MEAN	-50.8		-465.6		86.9		-1078.1		1338		839.9	
RMS	1569.4		5451.2		1722.7		5483.7		4560.7		2931.5	
1/2 P-P	2667.9		9348.5		3119.9		9469.3		7818.1		5444.4	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-923.5		1669.5		-1741.9		-1172.6		7461.5		833.2	
2nd	666.6		807.6		-1538.2		-919.1		601.7		1637.3	
3rd	-205.2		-24.1		54.5		165.3		69.5		298.8	
4th	-17.3		-6.1		177.2		-32.1		64.7		15.5	
5th	-7.3		-17		17.2		43.1		-45.7		25.9	
6th	-0.7		5.2		13.6		-12.4		11.5		-0.7	
7th	-14.4		-8.6		-8.7		-41.3		-28.6		-3.9	
8th	2.3		4.2		-31.8		17.3		-43.1		28.7	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/15												
MEAN	-779.3		-562.6		226.9		-2189.7		-625.1		-116.4	
RMS	2190.5		368.5		1470.8		5033.8		328.3		44.7	
1/2 P-P	4562.6		621.6		2797.3		8791.5		567.8		75.9	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	2788.6		-445.6		364		-1341.4		-1026.7		6803.8	
2nd	61.1		257.8		220.4		824.6		-493.6		-1480.5	
3rd	9.9		2.8		37		-54.3		237		6.6	
4th	-1044		-216.2		43.9		-20.6		28.9		39.8	
5th	129.6		-87.2		5.4		21		3.1		-58.6	
6th	22		-33.4		1.9		7.1		-8.6		10.1	
7th	26.3		-4.9		-3.1		2.9		-25.4		-2.7	
8th	16.4		-6.8		1.7		-6		-43.9		24	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
46/28												
MEAN	-249.1	-589.4	-754.2	-7100	-2784.7	-471.8						
RMS	682.6	723.6	638.2	3432.3	2472.4	70.3						
1/2 P-P	1411.5	1621.3	1658.6	5450.5	4800.1	161.3						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
2nd	-273.2	-347	-211.5	-275.5	-4.1	-70.9	-4186.1	2365.1	-520.9	739.1	55.5	-39.4
3rd	-461.4	-12.7	-572.1	-6.4	-470.3	-5.9	239.5	232.7	450.1	-151.7	-27.3	-1.8
4th	-573	278.9	-563.8	285.6	-493.7	209	302.5	62.1	-503.1	-414	-57	0.5
5th	128.1	59.7	219.4	79.3	168.7	64.8	-162.1	126.1	2730.2	-1687.6	16.5	-1.2
6th	-182.7	35.7	-126.3	47.1	40.7	33.7	149.9	-2.7	-459.3	-77.4	4.1	0.9
7th	154.5	-53.9	112.2	-49.9	118.9	-7.7	12.5	-8.6	-66	2.1	5.3	-7.9
8th	39	-16.7	-119.6	-23.5	-235.3	-17.9	45.9	-1.8	-33.1	5.4	3.2	-9.2
	-6.8	60.5	48.3	242.7	-44.3	249.7	-373.5	-94.6	402.2	66.5	5.2	14.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
46/28												
MEAN	890.5		-4782.5		1059.4		-5012.2		-1941.6		-999.3	
RMS	477.8		3341.2		482.2		3486.8		2932		2223.6	
1/2 P-P	947.4		5189.1		990.6		5563.6		4879.4		4603.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	299.8	-142.6	-2067	-4188.9	180.7	260.4	4361.3	-2199.5	3678.3	-1775.9	1943.5	-1198.3
2nd	-40.6	-56.1	-191	-231.9	19.3	60.3	239.1	282.5	228.1	238.3	370.3	46.9
3rd	-253.9	-464.9	32.3	-326.8	-483.9	238.8	-319.1	-17.9	-244.8	24.2	99.3	277
4th	173	15.5	-287.1	152.2	198	10.1	97	26.2	396	-186.1	1695.1	-1159
5th	-43.9	-96	16.9	184.2	97.5	-68.3	-148.7	14.7	-49.1	5.4	353.2	5.1
6th	-73.3	38.5	42.8	12.4	63.9	-31.1	-21.2	9.6	-23.8	3	-29.1	-22.7
7th	-0.3	-49.9	28.1	-75.1	-51	3.9	-44.9	-67.3	-32.8	-58	-10.7	-35
8th	-53.2	-73.7	-366.8	-72.8	-52.8	-59.8	-392.1	-50.3	-340.6	-63.8	-167	-7.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/28												
MEAN	-1875.2		-454.8		1114.6		-6718.5		-546.5		-57	
RMS	2316.9		76.1		484.7		3449.3		72.6		9.2	
1/2 P-P	4715		179.6		984.6		5526.6		165.7		18.2	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1070.7	-937.7	-61.5	57.2	-214.1	225.8	2074.2	4370.4	-38.8	-68.1	-6	-10.8
2nd	425	-78.1	-19.9	-1	-72	-55.5	-175	-231.1	25.6	6.4	2	-1.3
3rd	364.7	370.2	54.9	-8.8	259.8	474.3	-69.9	289.3	5.2	-49.2	1.3	0.9
4th	2177.8	-1773.4	5.2	7.6	196	22.7	-30.7	105.9	10.9	-4.3	-0.2	-0.1
5th	549.4	-32.2	-6.6	0.6	82	86.2	-12.9	-185.7	0.3	-7.8	-0.2	-0.1
6th	-11.4	-34.4	3.3	-7.7	-54.4	28	-0.8	27.7	-0.5	7.2	-0.1	-0.1
7th	10.5	30.3	-2.4	8.1	2.8	51.4	-27.2	-1.4	7.1	1.1	0.1	-0.2
8th	180.2	40.9	1.7	15.4	-78.1	-65.7	-375.8	-88.1	5.9	17.4	0	0.2

RUN/POINT 46/29	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	886.8	880.8	659.5	534.4	502.5	117.2						
RMS	1259.6	773.6	356.3	337.4	355.5	582						
1/2 P-P	1854.2	1148.5	732.6	842.2	826.4	1224.4						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-1605.1	473.4	256.2	-443.2	32.3	-238.8	-101.1	-203.6	-132.6	-281	-290.3
	2nd	98.6	107.8	52.1	-16.5	10.6	-78.8	-15.7	-103.5	-22.6	-272.2	-66.7
	3rd	476.8	-237.4	258.8	-122	-18.8	-206.1	68.8	-268.1	117	-578.7	207.7
	4th	191.5	14.4	105.1	3.8	-25.5	-84.8	-38.1	-118.9	-34.3	-119.9	-3.9
	5th	-113.5	25.1	-41.7	7	-10.4	136.2	-28.2	160	-32.9	-12.6	1.3
	6th	53.4	-48.9	14.7	-21.8	8.6	-83.9	35.6	-91.7	50.2	60.1	3.7
	7th	58.9	-10.8	11.3	-9.4	-55.9	-110.9	-17.1	-111.4	-6.2	125.1	35.8
	8th	-50.8	-52.9	-21.2	1.3	83.3	49.3	133.5	57.3	119.9	-13.6	-170.6
RUN/POINT 46/29	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	MEAN	-252.8	-592.2	-755.9	-7260.5	-2836.6	-473.2					
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	RMS	698.4	716.6	647.4	1169.6	2500.8	70.7					
	1/2 P-P	1491.3	1568.5	1646.4	2307.3	4724.2	166.5					
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	1st	-311.1	-308.5	-223.6	-249.9	13.7	-68.5	-892.4	1189.2	106.2	467	-42.6
	2nd	-457.4	-24.8	-546.2	-3	-434.7	18.2	379.5	-180	493.9	-215.4	-10.5
	3rd	-576.6	292.2	-558.1	299.7	-476.6	219.8	285.2	78.8	-528.6	-366.2	0.9
	4th	118.2	43.6	208.2	51	152.1	38.8	-267.2	139.6	2869.9	-1680.4	-8.6
	5th	-223.6	22.7	-171.4	13.8	0.1	-1.9	189.3	13.9	-542	-117.8	-3.2
	6th	158.7	-78.2	125.6	-82.9	135.2	-34	23.8	-2.1	-86.9	-2.9	-11.1
	7th	38.7	-24.9	-136.6	-6.1	-252.1	18.9	56.7	30.9	-69.6	-23.4	-14.6
	8th	-11	56	45.3	211.4	-46.4	224.8	-311.3	-113.3	333.6	83.2	13.3

RUN/POINT 46/29	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	842.7	-4933.2	1016.7	-5164.2	-2060.1	-1045.9						
RMS	1101.9	1092.2	1152.8	1200.9	1092.7	1594.4						
1/2 P-P	1697.9	2040.1	1721.1	2324.8	2333.7	3139.5						
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-455.5	-1355.3	-814.4	-1077.7	1431.3	-472.5	1210.9	-952.5	1094.4	-814	399.3	-584.5
2nd	-88.7	-93	-312.5	152.8	73.6	106.7	407.4	-160	393.2	-124.7	488.7	-169.3
3rd	-272.9	-468	53.4	-281.8	-471.5	259.7	-282.8	-58.7	-210.5	-4.9	141.9	223.4
4th	182	3.9	-349	198	207.7	7.7	88.4	60.5	368.2	-166.9	1598.4	-1194.5
5th	-30.5	-121.7	0.7	217.5	114	-65.5	-188.2	40	-67.2	18.6	394.4	1.6
6th	-70.2	49.7	17.9	-13.3	67.9	-38.3	-47.9	15.1	-44.4	1.6	-41.7	-32.9
7th	-5.9	-57.3	67.4	-83.2	-64.8	7.6	-41.1	-91.2	-29.1	-78.2	-10.6	-42.2
8th	-66.4	-82	-328.4	-86	-37.8	-59.9	-369	-113.5	-313.5	-118.2	-143.1	-35
RUN/POINT 46/29	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1928.1	-454.6	1061.9	-6873.4								
RMS	2093.9	72.6	1178.8	1027.2								
1/2 P-P	4010.7	175.7	1804.6	2048.1								
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	100.1	-499.3	-38.8	58	573.1	1430.6	697	1101	-44.1	-48.9	-16.7	-30.6
2nd	511.6	-208.6	-28.4	-10.2	-117.6	-98.4	-312.2	155.4	32.9	12.1	2.6	0
3rd	407.8	303.8	59.6	-8.2	277.1	474.2	-101.3	262.7	7.1	-59.1	1.8	1
4th	2033.5	-1829.9	-6	3.9	212.6	10.4	-69.5	112.7	2.1	-7.4	-0.3	0.1
5th	619.5	-56.3	-3.6	2.5	80	97.4	-15.8	-234.6	-0.1	-5.6	-0.2	-0.2
6th	-7.7	-49.1	6.3	-7.6	-55.4	36.5	26.4	40.7	-1	8.7	-0.2	0.1
7th	26.5	36.1	-1.1	11.6	11.5	64.5	-44.4	10.3	11.9	-0.6	0	0.2
8th	173.8	71	1.9	14.7	-55.6	-41.3	-310.3	-127.1	3.4	14.9	0	0.2

RUN/POINT 46/30	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	866.5	868.5	868.5	653.9	529.7	498.1	118.2					
RMS	1191.8	724.8	326.5	333.5	356.3	561.2						
1/2 P-P	2051.9	1249.5	709	866.9	862.4	1225.2						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-1323.8	852.9	-841.8	488	-372.3	131.6	-214.1	-63	-186.8	-104.5	-269.2	-266.1
2nd	76.6	120.3	38.4	66.7	-19.7	13.4	-76.9	-17	-98.7	-23.6	-250.9	-77
3rd	458.7	-225.4	249.4	-115.8	-8.3	-18.7	-198.1	66.2	-257.3	112.7	-553.7	201.7
4th	195.1	24.7	106.3	9.9	5.3	-23.7	-87	-41.9	-123	-39.5	-119.6	-13.3
5th	-145.1	8	-54.8	0	60.1	-1.5	161.5	-4.4	193.9	-5	-8.5	-2
6th	52	-52.3	14	-22.7	-41.9	10.9	-84.8	41.4	-92.8	57	64.2	-2.3
7th	53.9	-3.5	11.7	-7.1	-48.6	-21.3	-96.8	-26.1	-97.5	-17.1	104	44
8th	-65.2	-69.2	-24.5	1.2	30.2	107.5	73	175	82.5	157	-31.5	-222.2
RUN/POINT 46/30	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-253.1	-585	-740.9	-7186.4	-2806.8	-470.8						
RMS	691.9	726.8	645.4	1093	2384.3	70.1						
1/2 P-P	1443.6	1518.4	1645.1	2013.7	4511.2	162.6						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-305.5	-289.2	-221.2	-230.6	13.5	-63.9	-1343.3	49.9	5.2	228.3	33.6	-40.2
2nd	-451.9	-43.4	-555.2	-15.2	-451.7	18	318.7	-267.5	455	-229.3	-35.1	-13.2
3rd	-555.8	272.3	-542.9	269.3	-473.8	198.4	289.9	72.8	-497.9	-353.6	-65.2	-2.1
4th	130.3	43.8	227.1	41.9	175.8	17.9	-264.9	126.9	2836.2	-1420.5	9.4	-3.3
5th	-296.4	-24.1	-263.3	-30.8	-60.9	-36.7	215.2	27.9	-595	-153.7	-1.3	-3.3
6th	154.9	-83.4	113.4	-66.4	117.7	-6.5	11.1	-5.2	-63.5	-6.1	7.5	-10.1
7th	39.2	-20.9	-120.7	-16.6	-235.7	14.6	73	41.2	-77.5	-36	4.2	-12.3
8th	-2.1	75.5	94.3	262.2	9.2	271.1	-382	-117.8	409.5	80.5	2.3	16.9

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174	
46/30												
MEAN	825.4	-4868.7	1003.5	-5087.8	-1998.1	-995.2						
RMS	1057.8	1221.7	1110.7	1302.1	1149.5	1523.1						
1/2 P-P	1924.4	2225.1	1957.6	2540.8	2454	3019.5						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-835.1	-1080.9	244.2	-1523.5	1161.7	-865.6	1675.4	188.7	1446	124.2	621.4	-11.2
2nd	-79.2	-102.6	-241.8	232.2	61.1	114	323.6	-247.3	324.3	-205.3	440.8	-211.4
3rd	-264.5	-445.2	46.6	-292.5	-451	247	-300.3	-52	-224.3	-2.5	108.7	217.8
4th	186.1	14.2	-348.5	179.5	211.7	19.1	77.5	68.8	363.5	-130.1	1614.6	-1019
5th	-21.3	-154.3	-20.3	232.7	143.3	-48.1	-207.3	18.5	-82.8	5.1	442.4	21.9
6th	-66.6	52.6	13.4	-11.4	62.2	-42.9	-51.6	11.7	-44.7	-0.4	-37.9	-42
7th	1	-54.7	90.5	-59.7	-57.3	0	-0.4	-82.8	3.9	-70.1	-3.7	-32.3
8th	-80.6	-94.9	-395.1	-84.6	-50.5	-73	-430.4	-126.1	-368.7	-130.2	-179.8	-43.6
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/30												
MEAN	-1892.4	-452.7	1042.7	-6799.4	-544.5							
RMS	1998.2	72.3	1140	1255.4	71.6	24.7						
1/2 P-P	3834.6	174.9	2034.5	2346.8	174.1	39.7						
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	247.4	-132.7	-39.4	55.1	946.4	1144.9	-438.5	1581.4	-42.1	-47.9	-21.6	-27.2
2nd	463.5	-234.8	-29.8	-12.3	-98.6	-103.1	-252.1	231.4	33.3	13.3	2.3	0
3rd	362.9	299	59.9	-5.4	271.8	459	-93.9	271.5	7.8	-58.4	1.7	0.7
4th	2082.4	-1588.9	-3.2	6.5	214.5	21.7	-71.4	104.9	2.3	-4.2	-0.3	0
5th	690.7	-18.3	-4.5	1.4	59.4	133.9	5.9	-258.5	-1	-4.5	0	0
6th	-1.9	-59.5	4.7	-7.7	-53.9	40.8	24.5	30.7	-4.5	8.6	-0.1	-0.1
7th	4.8	42	-2.7	11.3	3.7	56.7	-12.2	12.8	9.4	3.7	0.1	0
8th	187.8	75.5	2.9	18.2	-80.2	-51.2	-370	-134.8	3.5	20	0.3	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	756.9		796.8		624.2		515		484.4		52.5	
RMS	467		270.9		122.2		229		272.3		481.8	
1/2 P-P	969.9		595.2		280.4		558.8		620.7		999.6	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-342.4	349	-234	182.5	-86.9	-13.1	-52.3	-149.5	-51.9	-186.7	-88.3	-365.9
2nd	20.9	18.2	8.4	11.6	-22.9	6.4	-63.6	2.9	-85.1	3.2	-236.3	8.4
3rd	380.5	-147.4	210.9	-75.3	4.7	-17.4	-155.9	28.2	-216.7	59.5	-457.9	149.6
4th	115.6	44.5	62.3	19.5	1.2	-21.1	-60.3	-48.4	-86.3	-50.8	-74.5	-16.8
5th	-24.3	-67	-9.2	-24.3	0.5	25.8	0.1	77.2	3.5	101	30.7	7.9
6th	48.9	-13	16.1	-4	-26.8	5.7	-66	10.8	-77.7	13.8	55	4
7th	12.2	1.7	5.9	-0.1	-6.7	-3.5	-16.7	0.9	-15.3	1.4	5.3	2.2
8th	-0.3	-70.7	-12.9	-9	-32.4	78.8	-49.6	141.1	-39.5	139.6	85.5	-153.3
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-341.9		-700.3		-791.8		-7452.2		-2774.9		-474.7	
RMS	564.8		597.1		498.1		2562.7		1696.6		95.9	
1/2 P-P	1151.6		1270		1239.6		4061.5		3624.6		192.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-134.6	-370.7	-57.8	-285.4	-0.9	-91	-3466.6	899.1	-577	481.7	86.3	-86.6
2nd	-394.6	32.3	-497.1	19.7	-361.3	12	197.3	68.1	351.2	-171.2	-33.8	3.7
3rd	-417.2	243.4	-357.5	267.7	-335.6	201.8	240.2	21.8	-372.5	-290.8	-38.7	1.9
4th	83.6	72.5	152	81.7	166.7	85.5	-138.8	52.5	1664.1	-1267.6	3.8	-5.8
5th	26.1	-216.4	25.6	-258.4	83.4	-193.8	143.1	111.6	-347.4	-372.7	1	-5.2
6th	106	-40.1	78.4	-45.4	-1.5	-30.2	-13.1	-45.5	-29.3	60.7	6.8	-6.7
7th	8.3	3.8	-35.8	-15.5	-80.3	7.7	27.5	15.2	-14.2	-2	-1.1	-0.5
8th	-39.5	52.7	-80.7	222.9	-77	218.4	-229	-276.3	267.1	260	-9.9	11.6

RUN/POINT 46/31	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	704.2	-5072.4	871.2	-5332.8	-2198.7	-1079.5						
RMS	390.2	2693.4	400.9	2886.6	2430.2	1723						
1/2 P-P	821.9	4075.4	847.7	4539.6	3956.1	3476.1						
HARMONIC	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Flap Bending, in-lb Blade 4, r/R=0.400		Chord Bending, in-lb Blade 4, r/R=0.400	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-274.3	-11.4	-671.8	-3704.1	83	-312.8	3966.7	-765.6	3332.7	-625.2	1877.9	-549.6
2nd	8	-12.7	-159.6	-123.6	-21.7	13.3	251.5	128	231.1	102	326.8	-30.3
3rd	-175.1	-402.4	-1	-258.5	-402.1	164.3	-240	0.2	-180.2	34.5	68.5	204.2
4th	104	37.9	-191.4	91	124.7	33.6	67	5.3	239.7	-152.7	990.6	-891.9
5th	91.5	-39.3	-84.2	152.9	26.8	43.5	-166.8	-92.7	-73.8	-40.6	238.2	213.5
6th	-53.9	18.1	20	39.1	47.7	-12.5	-22.4	-33.6	-21.9	-20.1	-17	28.4
7th	2.9	-11.9	37.5	8.1	-18.8	0.6	18.6	2.9	12.4	-5.2	-15.3	-23.5
8th	3.4	-97.7	-246.6	-264.6	-3	-62.1	-248.7	-283.5	-197.3	-264.4	-81.9	-129.9
RUN/POINT 46/31	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.450		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1903.5	-459.2	931.3	-7017.1	-546.8	-58.3						
RMS	1662.9	107.5	439.7	2769	100.5	6.1						
1/2 P-P	3525.8	213.1	964.5	4306.6	187	13.1						
HARMONIC	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.450		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1118.8	-533.2	-92.5	107.9	368.7	116.3	553.2	3840.3	-88.5	-98	-6.8	-2.9
2nd	369.3	-125.1	-24.8	8.1	-27.9	-18.5	-168	-117.4	31.1	-0.5	2.9	-1.4
3rd	267.3	291	38.2	-5.6	185.1	403	-27	227.4	0.7	-32.4	1.1	0.6
4th	1223.2	-1351.8	-8	4.9	127	46.8	-7.4	92.8	-3.3	-9.7	0	0
5th	452.2	323.5	-2.1	-0.1	-74.1	60.5	105.9	-163.8	-6.3	-1.3	0	0.1
6th	-11.1	51.9	1.9	-5.4	-48.2	9.9	4.4	33.7	-3.5	4.5	0.1	0.1
7th	-25.3	-24.3	2.7	-0.2	-0.1	15.6	11.8	7.4	-1.5	-2.5	0	-0.1
8th	106.3	117.2	-10.3	13.1	-22.3	-85.4	-219.6	-265.4	-9.3	15.3	0.1	-0.1

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$	Blade 1, $r/R=0.800$	Blade 1, $r/R=0.900$	Blade 1, $r/R=0.144$	Blade 1, $r/R=0.570$	Blade 1, $r/R=0.400$						
MEAN	-333.5	-695.3	-796.3	-7748	-2826.4	-474						
RMS	564	579.3	476.8	1191	1559.4	90.5						
1/2 P-P	1213.1	1214	1194.9	2207.5	3178.5	172.1						
HARMONIC												
1st	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
	-163	-344.1	-51	-261.9	37.8	-78.1	1528.1	133.5	540.5	68	-92.5	
2nd	-428	11.5	-513.7	7.8	-348.5	22.2	-149.7	440.1	-210.4	-38.1	-4	
3rd	-398.5	281.4	-352.6	302.9	-340.6	225.3	-3.1	-381.3	-226	-31	2.7	
4th	91.4	68.5	156.8	66.8	149.8	61.3	-165	1597.2	-1081.2	1.7	-10.9	
5th	-51.4	-122.2	-50.4	-153.4	30.2	-119	162.6	-427.7	-215.2	-2	-6.3	
6th	106.9	-53.1	102.7	-52.4	46.5	-25.4	-14.2	-5.2	46.4	6	-9.1	
7th	23.5	-9	-33.6	-37	-73.4	-6.7	49.4	-22.1	-3.2	-2.2	-2	
8th	0.3	42.7	48.5	158.1	34.3	151.8	-338.3	357.3	14.8	-2.5	8.6	

RUN/POINT 46/32	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	751.1	-5343.6	913.9	-5618.8	-2438.3	-1231.1						
RMS	1209.2	905.9	1249.1	1050.2	938.5	1103.1						
1/2 P-P	1677.6	1859.2	1714.3	1925.7	1757.5	2119.2						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-363.1	-1611.5	-171.9	1677.9	-351.3	-1299.3	330.5	-1119	56.8	-802.2		
2nd	-91.4	-33.6	117.3	77.8	44.3	-126.6	403	-104.2	446.2	-155.3		
3rd	-173.3	-338.6	-235	-334.3	162.4	15.8	-177.8	35.6	91.4	151.2		
4th	127.4	46.1	99.4	143.4	52.1	-7.6	198.7	-144	874.2	-790.3		
5th	51.5	-62	157.1	39.7	5	-173.3	-74.8	-2.7	267.9	93.4		
6th	-47	36.4	17.3	48.1	-24.5	-16.8	-20.6	-0.1	-26.7	5.1		
7th	0.8	-15.2	-19.5	-21.1	0.3	18.3	16.7	-14	-4.6	-25.7		
8th	-70.9	-76.4	-21.9	-48.9	-53.7	-379.8	-325.6	-60.9	-144.2	-12.2		
RUN/POINT 46/32	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1989	-458.2	973.7	-7320.4	-548.1	-58						
RMS	1354.4	101.7	1303.1	859.8	96.1	20.3						
1/2 P-P	2712.3	194.3	1813.6	1670.1	183.2	34.6						
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-50.7	-636.9	-72.8	114	467.5	1724.6	1060.6	28.4	-93.5	-81.9	-8.2	-27.2
2nd	454	-206	-28.5	0.7	-129.5	-40.8	-329.1	124.1	36.2	4.3	3.3	-0.4
3rd	287.3	217.9	29.4	-3.4	172.8	337.8	-15.8	227.9	5.5	-28.1	1.2	0.2
4th	1073.4	-1193.5	-7.3	-11.7	147.5	52.3	-47.8	41.1	-4.4	-15.8	-0.2	0
5th	487.4	108.2	-0.4	1.1	-19	67.8	50.9	-180.2	-3.9	1.9	0	-0.2
6th	-23.7	11.3	3.2	-4	-46.5	27.9	21.8	8.7	-3.7	6.1	-0.2	0.1
7th	-16.4	-8.6	4.7	2	1.6	20.1	26.4	11.2	3	-3.7	0.1	-0.1
8th	158.9	39.7	-2.9	8.5	-66.9	-40.4	-335.7	-73.5	0.9	10.5	0.1	0.3

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	855.6		856.4		648.2		523		490.5		56	
RMS	635.5		387		167.8		227.2		265.1		483.5	
1/2 P-P	1116.5		695.1		375.6		555.2		604.6		986.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	-715.4	329.2	-461.9	168.7	-182.8	-21.2	-88.9	-155.4	-76.8	-192.1	-101.8	-364.2
2nd	52.4	13.5	27.7	8.9	-17.3	4.8	-67.1	0.3	-91.6	-0.4	-255.6	0.6
3rd	361.1	-165	201.3	-85.4	4.4	-18.6	-149.9	31.9	-208.4	65.4	-447.7	171
4th	120.6	47.4	65.1	21	3.4	-23.4	-59.9	-54.4	-86.4	-57.7	-79.5	-13.9
5th	-34.5	-39.8	-13.3	-16.3	6.5	11.2	14.2	40.1	20	55.3	26.7	8.3
6th	45.2	-15	14.1	-5	-27.6	5.5	-64.7	10.8	-75.6	13.9	55.6	2.3
7th	11.1	2.4	2	0.2	-15.6	-4.4	-27.6	-0.4	-24.5	0.5	15.2	4.2
8th	-15.1	-59.2	-17.5	-5.5	-21	71.6	-25.7	125.6	-16.1	121.9	51.1	-140.1
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-336.9		-701.4		-800.3		-7476.9		-2776.2		-473.3	
RMS	564.7		585.7		494.4		2190.3		1765.9		94.4	
1/2 P-P	1227.3		1291.3		1293.8		3633.1		3691.5		190.5	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	-139.4	-361.5	-52.6	-273.9	9.7	-85.7	-2817.4	1147.1	-446.7	522	83.9	-85.6
2nd	-417.3	23.7	-514.3	11.1	-366.5	9.5	234	36.2	382.9	-180.3	-35.6	2.6
3rd	-417.1	265.8	-364.4	287.8	-346	213.7	249.3	26.8	-382.5	-270.4	-36	3.3
4th	79.4	87.1	144.6	98.5	153.1	98.3	-153.7	69.9	1734.7	-1387.2	6	-9
5th	-7.3	-133.5	-6.6	-161.7	65	-125.7	160.8	80.8	-399.6	-276.1	1.2	-4
6th	102.4	-37.5	80.2	-37.4	9.4	-20.9	-7.8	-31.5	-37	57.4	6.3	-7
7th	10.3	2.4	-47.3	-21	-94.9	1.6	42.7	16.1	-24.1	-1.6	-1.1	-1.5
8th	-28.3	49.3	-47	196.6	-51.2	189.2	-301.1	-221.7	341	200.9	-6.6	11.6

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
46/33												
MEAN	803.8		-5097.3		971.5		-5357		-2228.4		-1128.6	
RMS	465.5		2320.7		500.8		2485.5		2116.3		1609.5	
1/2 P-P	956.5		3666.7		978.1		4113.4		3614.3		3367.8	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	-266.1		-384.3		-3105.9		-296.2		3317.8		-991.4	
2nd	-23.8		-8		-197.3		13		280.9		82.1	
3rd	-187.4		-383.2		-0.2		-379.7		-245.4		-1	
4th	108.7		41.7		-209.8		114.3		125.5		39.9	
5th	57.2		-47.2		-78.1		164.2		35.6		8.5	
6th	-50.1		20.9		15.9		31.9		46.8		-12.8	
7th	4.9		-15.1		27.2		-6.5		-18.7		-0.6	
8th	-20.2		-91.2		-315.5		-196.2		-11.4		-58.1	
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/33												
MEAN	-1922.5		-458		1029.8		-7051.5		-546		-56.9	
RMS	1666.1		105.4		546.3		2354.9		98.9		8.6	
1/2 P-P	3559.9		204.7		1099.7		3789.4		183.5		16.7	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
1st	911.8		-602.9		106.8		486.4		758.7		3196.7	
2nd	398.7		-152.3		7.3		-10.8		-200.8		-79.8	
3rd	282.8		264.7		-6.6		381.2		-32		234.5	
4th	1263.2		-1448.4		2.5		47		-1.9		83.5	
5th	485.7		192.1		-0.8		59.4		89.2		-174.8	
6th	-19.1		37.9		-5.2		13.3		9.8		34.6	
7th	-18.3		-18.4		0.4		19.8		18.3		6.8	
8th	135.1		98.1		13.2		-68.6		-288.4		-215.7	

RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
MEAN	741.7		789.3		620.6		518.9		489.8		43.3	
RMS	251.8		137.5		145.7		252.5		291.2		496.8	
1/2 P-P	495.5		287.8		361.7		607.7		646.1		988.2	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.144$		Blade 1, $r/R=0.167$		Blade 1, $r/R=0.215$		Blade 1, $r/R=0.280$		Blade 1, $r/R=0.325$		Blade 1, $r/R=0.570$	
1st	146.7	59.1	81	-8.1	99.4	-144	105.6	-273.2	108.6	-315.8	178.4	-536.6
2nd	-48.9	-194.6	-22.6	-108.4	-21.1	-11.3	-39	57.3	-55.5	75.6	-221.4	143.2
3rd	163.4	-120.8	94.5	-69.9	7.3	-23.9	-60.3	19	-90.5	48.8	-222.9	171.6
4th	59.8	20.5	33.6	4.8	4.1	-19.6	-23.7	-35.3	-40.4	-34.1	-53.9	7
5th	-12.6	-80.6	-1.9	-29.5	3.1	34.3	5.2	98.1	8	124.5	13.6	4.7
6th	26.3	-17.7	11.4	-7.8	-8.9	1.8	-28.9	11.5	-36.3	20.8	35	-1.8
7th	-8.4	3	2.2	-2.6	16.4	-9.3	28.8	-10.1	28.6	-6.6	-31.6	-2.3
8th	-6.1	-61.7	-13.6	-12.6	-28.5	60	-37	117.6	-22.9	119.8	75.9	-140.2
RUN/POINT	Flap Bending, in-lb		Flap Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
MEAN	-440.2		-786.7		-822.9		-6905.4		-2672		-491.6	
RMS	595.4		588.3		404.7		3545.5		1399		177.6	
1/2 P-P	1200.2		1217.8		1056.3		5509.5		3070.3		313.1	
HARMONIC	COSINE		SINE		COSINE		SINE		COSINE		SINE	
	Blade 1, $r/R=0.725$		Blade 1, $r/R=0.800$		Blade 1, $r/R=0.900$		Blade 1, $r/R=0.144$		Blade 1, $r/R=0.570$		Blade 1, $r/R=0.400$	
1st	202.3	-498.3	157.2	-377.7	-35.1	-121.6	-4633	1769.8	-1148.4	810.1	165.8	-167.8
2nd	-423.9	93.9	-420.3	53.2	-245.8	17.6	308.3	466.4	328.4	-99.6	-67	46.5
3rd	-192.9	339.8	-232.4	350.3	-215.4	246.8	205.2	-94.1	-263	-84.7	-11.4	0.2
4th	33.1	23.5	100	68.1	56.6	72.7	-52.1	37.7	619.9	-1000	4.7	18.6
5th	6.5	-243.6	25.2	-327.4	85.5	-209.8	72.3	108.1	-187.2	-396.6	3.3	-6.1
6th	70.6	-22.5	17.8	-41.3	-18.7	-53	-19.5	-28.7	-4.1	33.3	6.7	-3.6
7th	8.8	-17.3	22.8	14.1	-27	8	-16	8.3	21.6	6.7	1.6	1.7
8th	-42.5	35.9	-39.1	180.7	-18.1	232.3	-248.7	-248.3	272.9	233.7	0.3	7.9

RUN/POINT 46/34	Flap Bending, in-lb Blade 2, r/R=0.144		Chord Bending, in-lb Blade 2, r/R=0.144		Flap Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.144		Chord Bending, in-lb Blade 3, r/R=0.174		Chord Bending, in-lb Blade 3, r/R=0.325	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	677.8	-4507.1	823.3	-4752.9	-1737.9	-898.3						
RMS	512.4	3858	475.6	3955.5	3326.8	2242.5						
1/2 P-P	1075.2	5772.2	949.1	6003.8	5110.4	3941.8						
HARMONIC	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	105.1	613.5	-1579	-5161.4	-568.2	31.4	5270.2	-1691.8	4446.3	-1375.6	2795	-1136.5
2nd	93.8	169.2	-300.8	-563.5	-112.2	-178.7	246.4	578.7	204.3	474.2	226.1	191.9
3rd	-146.5	-215.3	-114.9	-183.2	-189.6	149.7	-208.7	119.7	-147.8	106.1	74.3	127.7
4th	68.9	31.8	-3	98.3	76.6	28.2	34	-18.8	101.8	-141.5	378.1	-729.9
5th	107.8	-16.2	-102.7	79.1	41	86.1	-69.7	-100	-16.3	-30.1	170.4	288.1
6th	-33.9	21.3	27.9	10.3	31.5	-19.4	-20.5	-2.2	-14	-0.4	7.7	19.6
7th	3.3	8	-4	28.6	4.4	-3	5.5	26	-2.8	15.1	-8.3	-17.6
8th	-17.1	-93.1	-265.6	-228.4	-15.9	-63.4	-298.4	-248.7	-246.7	-240.4	-122.9	-128
RUN/POINT 46/34	Chord Bending, in-lb Blade 3, r/R=0.450		Torsion, in-lb Blade 3, r/R=0.400		Flap Bending, in-lb Blade 4, r/R=0.144		Chord Bending, in-lb Blade 4, r/R=0.144		Torsion, in-lb Blade 4, r/R=0.400		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1791.7	-481.8	913.2	-6461.2	-562.7	-67.8						
RMS	1770.1	197.8	387	3877.7	185.3	16.1						
1/2 P-P	3634.8	335.4	792.1	5853.9	320.2	26.9						
HARMONIC	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1877.2	-1002.3	-175.4	201.7	2.1	-439.6	1539.4	5211.7	-172.6	-178.7	10.4	18.5
2nd	247	52	-51.8	55.4	38.3	189.9	-227.2	-513.7	69.5	-36.2	5.2	-5.9
3rd	206.3	124	16.1	-0.7	140.3	165	105.5	197.5	8.4	-16.3	0.2	0.4
4th	440.3	-1045.4	6	20.4	73	20.1	-14.5	-42.3	8.6	11.5	0.1	0
5th	290.1	442.8	0.1	1	-68.5	30.1	96.1	-81.2	-5.9	0.1	0	0.1
6th	27.3	15.7	7.4	-1.4	-29.1	15.5	34.1	18.4	-4.2	2.1	0.1	0
7th	-31.6	-30.6	-0.2	-1.4	-3.4	-5.2	-1.4	3.8	-3.5	1.1	-0.2	0
8th	119	88.4	-0.6	8.1	-21.4	-69.9	-248.6	-250.3	-0.5	8.9	0	-0.1

RUN/POINT 46/35	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	793	814.4	628.8	513	479.3	28.3						
RMS	1640.2	995.3	387.8	260	287.3	491						
1/2 P-P	2259	1384.4	666.8	618.3	638.7	993.9						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-2262.5	429.7	-1384.2	203.2	-525.7	-58.3	-131.3	-243.7	-55.6	-295.8	82.9	-540.9
2nd	34.3	-148.5	27	-82.8	-6.4	-2.6	-44.1	56.4	-67.5	73.5	-242.9	136.8
3rd	157.8	-50.5	88.5	-30.6	2.7	-17.4	-66.4	3.5	-98.8	24.3	-229	114
4th	65.7	30.9	36.8	11.3	6	-20.1	-23.4	-35.9	-40.9	-32	-57.4	1.1
5th	-10.9	-103.3	-0.1	-41.9	4.7	31.1	6.6	106.6	6.3	138.7	14.6	14.7
6th	26.1	-30.7	12.4	-11.9	-5.4	8	-20.9	26.8	-30.9	36.7	30.1	-9.8
7th	-13.3	-15.1	-2.8	-8.2	9.2	4.8	24.6	22	27.8	28.4	-23.2	-37.5
8th	-14.6	-73.1	-15.7	-13.5	-22.6	73.6	-25.1	146.5	-12.6	148.6	70.1	-177.1
RUN/POINT 46/35	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-459.1	-796.9	-824.9	-7680	-2772	-486.7						
RMS	615.9	631.3	484.3	1745.4	1358	168.2						
1/2 P-P	1253.5	1388.9	1256.6	3026.8	2754.7	280.1						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	175.5	-506.3	175.6	-390.6	27.2	-134.1	1190.9	2042.4	-46.6	836.4	137.5	-179.4
2nd	-462	112.1	-453.1	95.4	-248.6	65.6	483.5	-152.7	382.4	-232	-58.9	35.2
3rd	-199.4	275.4	-244.7	282.7	-229	205.6	186.8	-83.7	-250.4	-118	-13.2	7.1
4th	36.2	44.2	118.9	98.1	71.4	101.7	-126.4	42.2	1011.7	-1114.8	0	-5.3
5th	0.2	-293.1	18.9	-388.1	87.1	-258.3	71.8	145.6	-181.2	-467.1	4.4	-8.4
6th	84.5	-40.2	35.6	-71	3.8	-81.9	-10.7	-8.9	-18.2	9.2	6.7	-4.7
7th	13.9	-19.6	23.8	55.9	-37.2	66.2	35.8	-9.9	-33.6	26.2	-2.2	0.2
8th	-45.3	43.2	-17.1	233.6	5.1	301.4	-281.8	-213	304.1	190.3	-2.9	5.4

RUN/POINT	Flap Bending, in-lb		Chord Bending, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb		Chord Bending, in-lb	
	Blade 2, r/R=0.144		Blade 2, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.144		Blade 3, r/R=0.174		Blade 3, r/R=0.325	
46/35												
MEAN	732.9		-5211.7		879.8		-5478		-2333.3		-1208.2	
RMS	1309.7		1258.8		1353.1		1424.6		1223.9		1184.2	
1/2 P-P	1835.1		2350.2		1858.2		2622.1		2286.7		2143.7	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-336.7	-1791	-1612.4	388.7	1838.5	-341.7	-373.7	-1839.7	-132.5	-1597.5	39.6	-1234.8
2nd	14.6	146.3	-436	44	-34.2	-141.7	522.5	-43.7	467.3	-42.2	434.2	-133.6
3rd	-76.4	-222.6	-66	-176.4	-184.9	92.1	-169.3	89.8	-123.2	82.8	84.1	121.5
4th	73.5	35.6	-47.8	77.1	77.6	30.3	37.3	-10.8	117.8	-146	464.7	-790.1
5th	100.8	-16.4	-143.4	108.6	35.5	84.1	-111.8	-137.5	-44.8	-56.7	165.3	296.2
6th	-27.7	29.4	4.4	13.5	27.1	-31.1	-10.4	0.3	-8.2	2.4	-7.8	2.9
7th	-12.7	14.9	18.3	-3.4	13.2	14.5	26.8	10.4	17.8	5.6	2.3	-13.1
8th	-28	-96.5	-299.3	-173.9	-28.2	-78.2	-325.7	-218.7	-269.8	-206.3	-130.6	-107.8
RUN/POINT	Chord Bending, in-lb		Torsion, in-lb		Flap Bending, in-lb		Chord Bending, in-lb		Torsion, in-lb		Pitch Link, lb	
	Blade 3, r/R=0.450		Blade 3, r/R=0.400		Blade 4, r/R=0.144		Blade 4, r/R=0.144		Blade 4, r/R=0.400		Blade 1	
46/35												
MEAN	-1957.7		-475		971.9		-7210		-557.4		-64.1	
RMS	1290.8		188.7		1469.7		1322.1		177.2		13.8	
1/2 P-P	2491.6		315.2		2033.7		2350.9		291.1		25.4	
HARMONIC												
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	119.2	-1017	-144.7	213.8	468.7	2002.5	1587	-768.8	-182.9	-153.8	4.9	-17.5
2nd	414	-182	-44	44.2	-53.4	163.2	-391.9	69.9	63.4	-30.5	5.5	-3.7
3rd	201.5	140.6	14.5	-5	81.6	174.8	65.8	183.3	-0.4	-15.6	0.4	0
4th	550	-1155.6	1.9	-1.3	81.8	20.6	-26.1	2.8	1.8	-9.4	-0.2	0.1
5th	313.7	462.2	-2.9	2.2	-69.2	18.4	138.2	-92.2	-2.3	-3.4	0.1	0
6th	2.4	1.9	5.2	-3.7	-22.2	27.3	6.2	4.8	-4.2	3.3	0.1	0
7th	-31.8	-26.9	1.1	-1.6	16.5	-15.4	38.5	9.3	-1.3	-3.2	0	0.1
8th	135.5	85.3	-1.1	9	-29.7	-70.1	-278.9	-218.2	-3	8.9	0.1	-0.2

RUN/POINT 46/36	Flap Bending, in-lb Blade 1, $r/R=0.144$		Flap Bending, in-lb Blade 1, $r/R=0.167$		Flap Bending, in-lb Blade 1, $r/R=0.215$		Flap Bending, in-lb Blade 1, $r/R=0.280$		Flap Bending, in-lb Blade 1, $r/R=0.325$		Flap Bending, in-lb Blade 1, $r/R=0.570$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	830.6	843.3	642.8	525.4	493.2	44.5						
RMS	627.3	355.9	88.5	216.1	267.2	496.6						
1/2 P-P	1153.7	651.2	218.3	555.5	600	1030.2						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-452.5	691.6	-286	373.7	-54.4	15.8	-215.6	74.9	-278.6	163.9	-533.1	
2nd	-18.1	-198.4	-5.6	-111.9	-16.2	-12.8	56.2	-60.8	74.7	-223.7	143.8	
3rd	191	-102.1	110.4	-58.1	11.4	-20.8	13.9	-97	39.5	-239.3	146	
4th	60.9	27.2	33.6	8.6	3.9	-19.7	-35.4	-38.8	-34.5	-56	3.8	
5th	-10.5	-68.2	-2.8	-26	-0.1	25.9	-1.1	-2.7	103.4	17.1	10	
6th	24.6	-20.8	11.8	-6.9	-5.1	8.1	20.3	-30.6	28	30.9	-4.1	
7th	-3	1.6	1.8	1.2	8.6	2.3	7.7	18.4	9.8	-17.1	-18.3	
8th	-4.7	-71.9	-10.7	-12.6	-24.8	74	-34.7	-21.7	144.5	80.7	-169	
RUN/POINT 46/36	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-450.2	-800.4	-838.5	-7138.9	-2703.5	-490.1						
RMS	592	589.5	413	2320.7	1348	175.7						
1/2 P-P	1179.1	1261.6	1074.6	3750.4	3059.2	301.4						
HARMONIC	Flap Bending, in-lb Blade 1, $r/R=0.725$		Flap Bending, in-lb Blade 1, $r/R=0.800$		Flap Bending, in-lb Blade 1, $r/R=0.900$		Chord Bending, in-lb Blade 1, $r/R=0.144$		Chord Bending, in-lb Blade 1, $r/R=0.570$		Torsion, in-lb Blade 1, $r/R=0.400$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	207.8	-513.2	172.6	-400.2	-16	-142.1	-3132.8	798.2	-881.2	648.9	163.1	-166.7
2nd	-424.1	104.8	-414.2	69.2	-231.1	28.5	197.3	223.6	295.3	-152	-68.4	43.7
3rd	-201.2	301	-240.6	305	-218.8	212.3	191	-64.5	-251.1	-88.8	-16.7	1.2
4th	29.3	45.7	103.3	101.2	57.7	102.8	-68.7	44	770.2	-1138.5	4.7	7.6
5th	14	-224.4	35.3	-304.8	95.7	-199.8	58.5	122.1	-149.4	-384.2	5.3	-4.2
6th	75.4	-30.6	23.2	-54.9	-7	-63.4	-8	-14.9	-20.9	6	7.3	-4.8
7th	12.1	-10.8	12.3	41.9	-48.3	42.5	-19.4	6.5	11.5	3.3	0.8	2.7
8th	-43.7	45.9	-37.1	219	-22	273.9	-265.2	-252.2	285.7	239.7	-2.2	9.3

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13. ABSTRACT (Maximum 200 words) A full-scale BO-105 hingeless rotor system was tested in the NASA Ames 40- by 80-Foot Wind Tunnel on the rotor test apparatus. Rotor performance, rotor loads, and aeroelastic stability as functions of both collective and cyclic pitch, tunnel velocity, and shaft angle were investigated. This test was performed in support of the Rotor Data Correlation Task under the U.S. Army/German Memorandum of Understanding on Cooperative Research in the Field of Helicopter Aeromechanics. The primary objective of this test program was to create a data base for full-scale hingeless rotor performance and structural blade loads. A secondary objective was to investigate the ability to match flight test conditions in the wind tunnel. This data base can be used for the experimental and analytical studies of hingeless rotor systems over large variations in rotor thrust and tunnel velocity. Rotor performance and structural loads for tunnel velocities from hover to 170 knots and thrust coefficients (C_T/s) from 0.0 to 0.12 are presented in this report. Thrust sweeps at tunnel velocities of 10, 20, and 30 knots are also included in this data set.					
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RUN/POINT 46/36	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	759.5	-4721.5	-4721.5	914.6	-4951.4	-1903.3	-994.2					
RMS	457.9	2766.9	2766.9	495.5	2879.4	2449.5	1765.1					
1/2 P-P	860.1	4198.9	4198.9	934.8	4548.6	3916.2	3330.4					
HARMONIC	Flap Bending, in-lb Blade 2, $r/R=0.144$		Chord Bending, in-lb Blade 2, $r/R=0.144$		Flap Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.144$		Chord Bending, in-lb Blade 3, $r/R=0.174$		Chord Bending, in-lb Blade 3, $r/R=0.325$	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	-539.6	42	-610	-3816.5	33.9	-609.2	3968.7	-655.1	3372.7	-568.8	2165	-650.7
2nd	70.6	172.6	-187	-337.3	-84.8	-183.2	212.4	348.7	176	274.9	217.9	70.7
3rd	-122.5	-228.7	-77.4	-190.2	-208.6	125.4	-178.9	77.1	-126.9	75.8	76.2	113
4th	70	32.1	-36.3	95.2	70.5	30.3	39	-2.3	115.9	-147	460.8	-830.5
5th	85.6	-4.8	-93	79.8	25.4	69.9	-67.6	-113.9	-20	-46.1	129	253.9
6th	-29.3	18.1	27.8	12.3	23.3	-19.2	-12.3	-20.7	-10.1	-11.4	-2.3	13.2
7th	-2.8	4.3	-0.4	29.4	1	-0.7	7	31.7	2.1	19.2	-11.6	-18.7
8th	-6.4	-87.1	-268.8	-231.8	-24.3	-64.1	-287.4	-255.3	-235.1	-240.8	-118.6	-123.9
RUN/POINT 46/36	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
MEAN	-1839.4	-480	-480	1003.2	-6688.4	-560.3	-63					
RMS	1559.3	195.1	195.1	531.6	2691	182.3	8.6					
1/2 P-P	3269.5	319.6	319.6	1005.5	4114.3	302.5	17.8					
HARMONIC	Chord Bending, in-lb Blade 3, $r/R=0.450$		Torsion, in-lb Blade 3, $r/R=0.400$		Flap Bending, in-lb Blade 4, $r/R=0.144$		Chord Bending, in-lb Blade 4, $r/R=0.144$		Torsion, in-lb Blade 4, $r/R=0.400$		Pitch Link, lb Blade 1	
	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE	COSINE	SINE
1st	1488.3	-699.9	-172.8	200.1	659.8	149.4	462.2	3736.1	-170.7	-175.5	0.4	9.5
2nd	249.5	-35.7	-52.6	51.6	6.2	191.3	-133.2	-283.1	69.1	-32.4	5.3	-4.6
3rd	198.4	121	19.4	-3.3	130.3	187.6	68.9	194.8	0.7	-17.8	0.3	0.3
4th	547.9	-1204.2	1.4	10.3	73	24.3	-7.5	-4.9	4.1	-2.5	-0.1	0
5th	228.4	410.3	-2.5	-0.5	-63.6	11.9	98.4	-76.7	-6	-2.7	-0.1	0
6th	14.2	23.4	5.4	-1	-22.3	16.4	6.3	20.8	-3.4	2.8	0	-0.1
7th	-27.6	-32.3	-0.7	-2	3.3	-2.2	-3.9	-4.3	-4.8	1.5	0	-0.1
8th	117.5	93.7	-2.3	9.2	-25.8	-71.8	-254.5	-245.2	-2.8	10.3	0	0